

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Aarnisalo E., Effects of yellow filter glasses on ocular discrimination of normal observers and on the illumination level, "ACTA Ophthalmologica," 274-278 (1987).
- Accardi F., Gombos M., Gombos G., Common causes of blindness: A pilot survey in Brooklyn, New York, "Ann Ophthalmol," 17:289-290 (1985).
- Adams D.O., Beatrice E.S., Bedell R.B., Retina: Ultrastructural alterations produced by extremely low levels of coherent radiation, "Science," 177(4043):58-60 (1972).
- Adamsons I., Munoz B., Enger C., Taylor H.R., A new method for documenting lens opacities, "Am J Ophthalmol," 111:65-70 (1991).
- Adamsons I., Munoz B., Enger C., Taylor H.R., Prevalence of lens opacities in surgical and general populations, "Arch Ophthalmol," 109:993-997 (1991).
- Agarwal S., Friesen E., Huddleston A., Rao R., The effectiveness of glass lenses in reducing exposure to the eyes, "Radiology," 129:810-811 (1978).
- Algie J.E., Haley A.R., Ultraviolet light and conduction in keratin, "Textile Res J," 30:627 (1960).
- Anaclerio A., Wicker H., Self-induced solar retinopathy by patients in a psychiatric hospital, "Am J Ophthalmol," 69:731-736 (1970).
- Anderson E.I., Wright D., Spector A., The state of sulfhydryl groups in normal and cataractous human lens proteins, "Exp Eye Res," 29:233-243 (1979).
- Anderson R., Rapp L., Weigand R., Lipid peroxidation and retinal degeneration, "Curr Eye Res," 3:223-237 (1984).
- Andley U., Phototoxic effects in the eye, "American Society of Photobiology, 25th Annual Meeting," St. Louis, MO, USA, (1997).
- Andley U.P., Clark B.A., The effects of near-UV radiation on human lens beta-crystallins: Protein structural changes and the production of O₂ and H₂O₂, "Photochem Photobiol," 50(1):97-105 (1989).
- Andley U.P., Lewis R.M., Reddan J.R., Kochevar I.E., Action spectrum for cytotoxicity in the UVA and UVB wavelength region in cultured lens epithelial cells, "Invest Ophthalmol Vis Sci," 35(2):367-373 (1994).
- Andley U.P., Walsh A., Kochevar I., Reddan J., The effects of UV radiation on protein-synthesis in cultured lens epithelial cells, "Curr Eye Res," 9:1099-1106 (1990).
- Andley U.P., Weber J.G., Ultraviolet action spectra for photobiological effects in cultured human lens epithelial cells, "Photochem Photobiol," 62(5):840-846 (1995).
- Anduze A.L., Ultraviolet radiation and cataract development in the U.S. Virgin Islands, "J Cataract Refract Surg," 19:298-300 (1993).
- Anduze, A.L., Biscoe, B.W., Pterygium Staging in the Caribbean, "Ann Ophthalmol," 30(2):92-94 (1998).
- Anon., Biological effects of solar ultraviolet radiation, "Photobiology," Academic Press, San Diego, CA, USA, 275-302 (1995).
- ANSI, Requirements for nonprescription sunglasses and fashion eyewear, "ANSI Z80.3-1986," (edited by Sasaki H., Hockwin O.) American National Standards Institute, New York, NY, USA, (1986).
- Asano K., Sakamoto Y., Kojima M., Sasaki K., Localization of cortical cataracts examined through photographic images, "Cataract Epidemiology," (edited by Sasaki H. and Hockwin O.) Karger, Basel, Switzerland, 25-31 (1997).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Augusteyn R.C., Protein modification in cataract: possible oxidative mechanism, "Mechanisms of Cataract Formation in Human Lens," (edited by Duncan O.) Academic Press, New York, NY, USA, 72-115 (1981).

Bachem A., Ophthalmic ultraviolet action spectra, "Am J Ophthalmol," 41:969-975 (1956).

Banks C., Hutton W., Blindness in NSW: an estimate of the prevalence and some of the contributing causes, "Aust J Ophthalmol," 9:285-288 (1982).

Barbe M.F., Tytell M., Gower D.J., Welch W.J., Hyperthermia protects against light damage in the rat retina, "Science," 241:1817-1818 (1988).

Barishak Y.R., Beemer A.M., Egyed M.N., Eliat A., Histology of the retina and choroid in ducklings photosensitized by feeding Ammi majus seeds, "Ophthal Res," 8:169-178 (1976).

Barker F.M., The effects of UV-A upon the eye, "Biological Responses to Ultraviolet A Radiation," (edited by Urbach F.) Valdenmar Publishing, Overland Park, (1992).

Barker F.M., Dayhaw-Barker P., Forbes P.D., Davies R.E., Ocular effects of treatment with various psoralen derivatives and ultraviolet-A (UVA) radiation in HRA/Skh hairless mice, "ACTA Ophthalmologica," 64:471-478 (1986).

Barron B.C., Yu N.-T., Kuck Jr. J.F.R., Tryptophan Raman/457.9 excited fluorescence of intact guinea pig lenses in aging and ultraviolet light, "Invest Ophthalmol Vis Sci," 28:815-821 (1987).

Beachy N.A., S.M. Morris, R.D. Richards, S.D. Varma, Photoperoxidation of lens lipids: Inhibition by aspirin, "Photochem Photobiol," 45(5):677-678 (1987).

Benedek G.B., Theory of transparency of the eye, "Appl Opt," 10:459-473 (1971).

Bener P., Spectral intensity of natural ultraviolet radiation and its dependence on various parameters, "The Biologic Effects of Ultraviolet Radiation," (edited by Urbach F.) Pergamon Press, Oxford, UK, (1969).

Benkwith K.B., Retinal hemorrhage as seen in an atomic-bomb casualty, "Am J Ophth," 29:799-800 (1946).

Berens C., McAlpine P.T., Solar keratoconjunctivitis associated with amblyopia, "Am J Ophthalmol," 27:227-226 (1944).

Bergmanson J., Pitts D., Chu L., The efficacy of a UV-blocking soft contact lens in protecting cornea against UV radiation, "Acta Ophthalmol," 65:279-286 (1987).

Bergmanson J.P.G., Corneal damage in photokeratitis - Why is it so painful, "Optom Vis Sci," 67(6):407-413 (1990).

Bergmanson J.P.G., Sheldon T.M., Ultraviolet radiation revisited, "CLAO Journal, and reprinted in Optometry Today Nov/Dec 1997," 23(3):196-204 (1997).

Bergmanson J.P.G., Soderberg P.G., The significance of ultraviolet radiation for eye disease, "Ophthal Physiol Opt, and reprinted in Optometry Today Nov/Dec 1997," 15(2):83-91 (1995).

Bernstein H.N., Curtis J., Earl F.L., Kuwabara T., Phototoxic corneal and lens opacities, "Arch Ophthal," 83:336-348 (1970).

Betts L.S., Smilkstein M.J., Rumack B.H., Cwinn A., Unrecognized ultraviolet-induced keratoconjunctivitis [letter], "Ann Emerg Med," 15(11):1378 (1986).

Bird A., Pathiophysiology of AMD, "Age-related Macular Degeneration, Principles and Practice," (edited by Hampton G., Nelson P.) Raven Press, New York, NY, USA, 63-83 (1992).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Bird A., Recent advances in the treatment of senile disciform macular degeneration by photocoagulation, "Br J Ophthalmol," 58:367-376 (1974).

Blumthaler M., Ambach W., Daxecker F., On the threshold radiant exposure for keratitis solaris, "Invest Ophthalmol Vis Sci," 28(10):1713-1716 (1987).

Bochow T.W., West S.K., Azar A., Munoz B., Sommer A., Taylor H.R., Ultraviolet light exposure and the risk of posterior subcapsular cataracts, "Arch Ophthalmol," 107:369-372 (1989).

Boettner E., Spectral transmission of the eye: Final Report AF 41-609-2996, DTIC No. AD 663-246, "USAF School of Aerospace Medicine," Brooks AFB, TX, (1967).

Boettner E.A., Wolter J.R., Transmission of the ocular media, "Invest Ophth," 1(6):766-783 (1962).

Boldrey E., Ho B., Griffith R., Retinal burns occurring at cataract extraction, "Ophthalmology," 91:1297-1302 (1984).

Bor Z., Hopp B., Racz B., Szabo G., Marton Z., Ratkay I., Mohay J., Physical problems of excimer laser cornea ablation, "Optical Engineering," 32(10):2481-2486 (1993).

Borchman, D., Yappert, M.C., Age-related lipid oxidation in human lenses, "Invest Ophthalmol Vis Sci," 39(6):1053-1058 (1998).

Borges J., Li Z.-Y., Tso M., Effects of repeated photic exposures on the monkey macula, "Arch Ophthalmol," 108:727-733 (1990).

Borkman R., Lerman S., Evidence for a free-radical mechanism in aging and UV irradiated ocular lenses, "Exp Eye Res," 25:303-305 (1977).

Borkman R.F., Dalrymple A., Lerman S., Ultraviolet action spectrum for fluorogen production in the ocular lens, "Photochem Photobiol," 26:129-132 (1977).

Borkman R.F., Lerman S., Fluorescence spectra of typtophan residues in human and bovine lens proteins, "Exp Eye Res," 26:705-713 (1978).

Borkman R.F., McLaughlin J., The molecular chaperone function of alpha-crystallin is impaired by UV photolysis, "Photochem Photobiol," 62(6):1046-1051 (1995).

Borkman R.F., Tassin J.D., Lerman S., Fluorescence lifetimes of ocular lens chromophores, "Photochem Photobiol," 31:519-521 (1980).

Borley W., McAlester A., Lower R., Central macular chorioretinitis in naval personnel, "US Navel Med Bull," 45:511-516 (1945).

Boukes R.J., Bruynzell D.P., Ocular findings in 340 long-term related PUVA patients, "Photodermatology," 2:178-180 (1985).

Boyd R.W., , "Radiometry and the Detection of Optical Radiation," John Wiley and Sons, New York, NY, USA, (1984).

Bradford-Hill A., The environment and disease: association or causation?, "Proc R Soc Med," 58:295-300 (1965).

Brainard G.C., Barker F.M., Age related changes in human lens transmittance, "Contract Report to the Food and Drug Administration," Rockville, MD, USA, (1987).

Brainard G.C., Stewart K.T., Nguyen C.D., Hanifin J.P., Barker F.M., Stetson M.H., Hoffman R.A., Mechanism for ultraviolet radiation to regulate pineal and reproductive physiology in rodents, "Advances in Pineal Research," (edited by Arendt J., Pevet P.) John Libbey and Co., Ltd., 67-71 (1991).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Brandenburg K.C., Ultraviolet effects on night vision, "Ann West Med Surg," 4:302 (1950).
- Breadsell R.O., Wegener A., Breipohl W., Hirst L.W., UV-B radiation-induced cataract in the Royal College of Surgeons rat, "Ophthalmic Res," 26(1):84-89 (1994).
- Bresnick G.H., Frisch G.D., Powell J.O., Landers M.B., Holst G.E., Dallas A.G., Ocular effects of argon laser radiation - Part I: Retinal damage threshold studies, "Invest Ophthalmol," 9(11):901-910 (1970).
- Brilliant L.B., Grasset N.C., Pokhrel R.P., Kolstad A., Lepkowski J.M., Brilliant G.E., Associations among cataract prevalence, sunlight hours, and altitude in the Himalayas, "Am J Epidemiol," 118:250-264 (1983).
- Brookman K.E., Mills K.S., Changes in oxygen uptake of the frog cornea induced by ultraviolet irradiation, "Am J Optom Physiol Opt," 51(5):299-302 (1974).
- Buchanan A.R., Heim H.C., Stilson D.W., Biomedical effects of exposure to ultraviolet radiation I. Ultraviolet, "Wright-Patterson AFB Tech Report 60-376," Wright-Patterson AFB, Dayton, OH, USA, (1960).
- Buckingham R.H., Pirie A., The effect of light on lens proteins in vitro, "Exp Eye Res," 14:297-299 (1972).
- Burge W.E., The effect of radiant energy on the lens and the humors of the eye, "Am J Physiol," 36:21-36 (1914).
- Burge W.E., The mode of action of ultraviolet radiation in injuring living cells with special reference to those constituting the eye, "Am J Physiol," 39:335-344 (1916).
- Burge W.E., Wickwire G.C., Schamp H.M., Cause of calcification of the crystalline lens with advance in age and in cataract, "Arch Ophthal," 17:234-240 (1937).
- Burton M., Fergusson E., Hart A., Knight K., Lary D., Liu C., The prevalence of cataract in two villages of northern Pakistan with different levels of ultraviolet radiation, "Royal College of Ophthalmologists," 11:95-101 (1997).
- Buschke W., Freidenwald J.S., Moses S.G., Effects of ultraviolet irradiation on corneal epithelium: mitosis, nuclear fragmentation, post-traumatic cell movements, loss of tissue cohesion, "J Cell Comp Physiol," 26:147-164 (1945).
- Buxton J., Ultraviolet light and the crystalline lens, "Ann Ophthalmol," 4:11-12 (1972).
- Caird F.I., Hutchinson M., Pirie A., Cataract extraction in an English population, "Br J Prev Soc Med," 19:80-84 (1965).
- Cameron M., , "Pterygium Throughout the World," CC Thomas, Springfield, IL, USA, (1965).
- Canadian National Institute for the Blind, Canadian National Institute for the Blind. National Society for the Prevention of Blindness: Causes of Blindness-Statistics for new cases registered with the CNIB in 1970-1976, ", " New York, (1978).
- Cesarini J.P., Ultraviolet radiation: Biological effects and health consequences, "Non-Ionizing Radiation," ICNIRP, 55-76 (1996).
- Charman W.N., Ocular hazards arising from depletion of the natural atmospheric ozone layer, "Ophthal Physiol Opt," 10:333-341 (1990).
- Chatterjee A., Cataract in Punjab, "Symposium on the Human Lens in Relation to Cataract, Ciba Foundation Symposium 19," Associated Science Publishers, Amsterdam, Netherlands, (1973).
- Chatterjee A., Milton R., Thyle S., Prevalence and etiology of cataract in Punjab, "Br J Ophthalmol," 66:35-42 (1982).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Chou B.R., Cullen A.P., Spectral transmittance of the ocular media of the thirteen-lined ground squirrel (*Spermophilus tridecemlineatus*), "Can J Zoology," 62(5):825-830 (1984).
- Christensen E., Giese A.C., Increased photoreversal of ultraviolet injury by flashing light, "J Gen Physiol," 39:513-526 (1956).
- Christner C.A., et. al., State of the art study on visual impairment by high intensity flash of visible, infrared, or ultraviolet light, "Battell Memorial Institute, Report No. BAT-171-9," Columbus, OH, USA, (1965).
- Chylack Jr. L.T., Lee M.R., Tung W.H., Cheng H.-M., Classification of human senile cataractous change by the American cooperative cataract research group (CCRG) method, I. Instrumentation and technique, "Invest Ophthalmol Vis Sci," 24(4):424-431 (1983).
- Chylack Jr. L.T., Ransil B.J., White O., Classification of human senile cataractous change by the American cooperative cataract research group (CCRG) method. III. The association of nuclear color (sclerosis) with extent of cataract formation, age, and visual acuity, "Invest Ophthalmol Vis Sci," 25:174-180 (1984).
- Chylack Jr. L.T., White O., Tung W.H., Classification of human senile cataractous change by the American cooperative cataract research group (CCRG) method. II. Staged simplification of cataract classification, "Invest Ophthalmol Vis Sci," 25(2):166-173 (1984).
- Clark B.A.J., A survey of optical properties of sunglasses, "Aust J Optom," 51:150-162 (1968).
- Clark B.A.J., Polarizing sunglasses and possible eye hazards of transmitted radiation, "Am J Optom Arch Am Acad Optom," 46:499-509 (1969).
- Clark B.A.J., The luminous transmittance factor of sunglasses, "Am J Optom Arch Am Acad Optom," 46:362-378 (1969).
- Clark R., Zigman S., Lerman S., Studies on the structural proteins of the human lens, "Exp Eye Res," 8:172-182 (1969).
- Clear A., Chirambo M., Hutt M., Solar keratosis, pterygium and squamous cell carcinoma of the conjunctiva in Malawi, "Br J Ophthalmol," 63:102-109 (1979).
- Cloud T.M., Hakim R., Griffin A.C., Photosensitization of the eye with methoxsalen, "Arch Ophthalmol," 64:346-351 (1960).
- Cloud T.M., Hakim R., Griffin A.C., Photosensitization of the eye with methoxsalen II. Chronic effects, "Arch Ophthalmol," 66:689-694 (1961).
- Cockrell E.G., Knox J.M., Experimental ultraviolet carcinogenesis, "Texas J Med," 56:657 (1960).
- Coffey A., Brownstein S., The prevalence of macular drusen in postmortem eyes, "Am J Ophthalmol," 102:164-171 (1986).
- Cogan D., Photosensitization and cataracts, "Arch Ophthalmol," 66:28-29 (1961).
- Cogan D.G., Lesions of the eye from radiant energy, "J.A.M.A.," 142:145-151 (1950).
- Cogan D.G., Kinsey V.E., Action spectrum of keratitis produced by ultraviolet radiation, "Arch Ophthalmol," 35:670-677 (1946).
- Cogan D.G., Martin S.F., Kimura S.J., Ikui H., Ophthalmologic survey of atomic bomb survivors in Japan, 1949, "Trans Am Ophth Soc," 48:62-87 (1950).
- Collier R.J., Waldron W.R., Zigman S., Temporal sequence of changes to the gray squirrel retina after near-UV exposure, "Invest Ophthalmol Vis Sci," 30(4):631-637 (1989).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Collman G.W., Shore D.L., Shy C.M., Checkoway H., Luria A.S., Sunlight and other risk factors for cataract: an epidemiological study, "Am J Publ Health," 78:1459-1462 (1988).
- Connolly J.S., Zuclich J.A., Yates J.T., Bowie W.H., Lemberber R.F., Blystone R.V., Kurtin W.E., Technical Report, "Research on the ocular effects of laser radiation," Technology Incorporated, Life Sciences Division, San Antonio, TX, (1976).
- Cordes F., A type of foveo-macular retinitis observed in the US Navy, "Am J Ophthalmol," 27:803-816 (1944).
- Coroneo M., Muller-Stolzenburg N., Ho A., Peripheral light focusing by the anterior eye and the ophthalmohelioses, "Ophthalmic Surg," 22:705-711 (1991).
- Coroneo M.T., Albedo concentration in the anterior eye: A phenomenon that locates some solar diseases, "Ophthalmic Surgery," 21(1):60-66 (1990).
- Coroneo M.T., Beheading the pterygium, "Ophthalmic Surgery," 23(10):691-692 (1992).
- Coroneo M.T., Pterygium as an early indicator of ultraviolet insolation: a hypothesis, "Br J Ophthalmol," 77:734-739 (1993).
- Cortese F., L'azione dei raggi ultravioletti sull'occhio e sugli annessi oculari del coniglio, "Boll Soc Med Chir," 43:717-745 (1929).
- Cruickshanks K.J., Klein B.E.K., Klein R., Ultraviolet light exposure and lens opacities: The Beaver Dam eye study, "Am J Pub Health," 82(12):1658-1662 (1992).
- Cullen A.P., Additive effects of ultraviolet radiation, "Am J Optom Physiol Opt," 57(11):808-814 (1980).
- Cullen A.P., Spectacle indirect ophthalmoscope accessories, "Am J Optom Physiol Opt," 61(6):414-416 (1984).
- Cullen A.P., Ultraviolet induced lysosome activity in corneal epithelium, "Albrecht von Graefes Arch Klin Ophthalmol," 214:107-118 (1980).
- Cullen A.P., Chou B.R., Blue free fundus examination, "Can J Optom," 46(4):153-168.
- Cullen A.P., Chou B.R., Keratopathy with low dose chloroquine therapy, "J Am Optom Assn," 57(5):368-372 (1986).
- Cullen A.P., Chou B.R., Hall M.G., Jany S.E., Ultraviolet-B damages corneal endothelium, "Am J Optom Physiol Opt," 61(7):473-478 (1984).
- Cullen A.P., Monteith-McMaster C.A., Damage to the rainbow trout lens (*Oncorhynchus mykiss*) following an acute dose of UVB, "Curr Eye Res," 12(2):97-106 (1993).
- Cullen A.P., Monteith-McMaster C.A., Sivak J.G., Lenticular changes in rainbow trout following chronic exposure to UV radiation, "Curr Eye Res," 13:731-737 (1994).
- Cullen A.P., Oriowo O.M., Voisin A.C., Anterior eye focusing of peripheral ultraviolet and visible radiation albedo, "Clin. Exp Optom," 80(3):80-86 (1997).
- Cullen A.P., Perera S.C., Sunlight and human conjunctival action spectrum, "SPIE," 2134B:24-30 (1994).
- Curcio C.A., Millican C.L., Allen K.A., Kalina R.E., Aging of the human photoreceptor mosaic: Evidence for selective vulnerability of rods in central retina, "Invest Ophthalmol Vis Sci," 34(12):3278-3296 (1993).
- Dais, B.K., Sun, T-X., Akhtar, N.J., Chylack, Jr., L.T., Liang, J.J.-N., Fluorescence and immunochemical studies of advanced glycation-related lens pigments, "Invest Ophthalmol Vis Sci," 39(11):2058-2066 (1998).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Dana M.R., Olkowski S.T., Ahmadian H., Stark S.J., Young E.M., Low-dose ultraviolet-B irradiation of donor corneal endothelium and graft survival, "Invest Ophthalmol Vis Sci," 31(11):2261-2268 (1990).

Darrel R.W., Bachrach C., Pterygium among veterans, "Arch Ophthalmol," 70:158-169 (1963).

Davey J.B., Diffey B.L., Miller J.A., Eye protection in psoralen photochemotherapy, "Br J Dermatol," 104:295-300 (1981).

Davis, J.K., The sunglass standard and its rationale, "Am J Optom," 67(6):414-430 (1990).

Dayhaw-Barker P., Ocular photosensitization, "Photochem Photobiol," 46(6):1051-1055 (1987).

de Lint P., van Norren D., Toebosch A., Effect of body temperature on threshold for retinal light damage, "Invest Ophthalmol Vis Sci," 33:2382-2387 (1992).

de Lint P., Vos J.J., Berendschot T.T.J.M., van Norren D., On the Stiles-Crawford effect with age, "Invest Ophthalmol Vis Sci," 38(6):1271-1274 (1997).

De Natale R., Flammer J., Zulauf M., Bebie T., Influence of age in the transparency of the lens in normals: a population study with help of the lens opacity meter 701, "Ophthalmologica," 197:14-18 (1988).

de Vries E., Ophthalmological experiences from the camps for war prisoners in Java, "Ophthalmologica," 113:241-247 (1947).

Dekking H., Tropical nutritional amblyopia ("camp eyes"), "Ophthalmologica," 113:65-92 (1947).

Delmelle M., Possible implication of photooxidation reactions in retinal photo-damage, "Photochem Photobiol," 29:713-716 (1979).

Dhir S., Detels R., Alexander E., The role of environmental factors in cataract, pterygium and trachoma, "Am J Ophthalmol," 64:128-135 (1967).

Dhir S., Gupta A., Jain I.S., Eclipse retinopathy, "Br J Ophthalmol," 65:42-45 (1981).

Dilley K.J., Pirie A., Changes to the proteins of the human lens nucleus in cataract, "Exp Eye Res," 19:59-72 (1974).

Dillon J., The photophysics and photobiology of the eye, "J Photochem Photobiol," 10:23-40 (1991).

Dillon J., Garner M.H., Roy D., Spector A., The photolysis of lens proteins: Molecular changes, "Exp Eye Res," 34:651-658 (1982).

Dillon J., Wang R-H., Atherton S.J., Photochemical and photophysical studies on human lens constituents, "Photochem Photobiol," 52(4):849-854 (1990).

Dobson R.L., Lawrence J.H., Physiological effects of radiant energy, "Ann Rev Physiol," 10:479-500 (1948).

Dolezal J.M., Perkins E.S., Wallace R.B., Sunlight, skin sensitivity and senile cataract, "Am J Epidemiol," 129:559-568 (1989).

Dolin P.J., Assessment of the epidemiological evidence that exposure to solar ultraviolet radiation causes cataract, "Documenta Ophthalmologica," 88:327-337 (1995).

Dolin P.J., Ultraviolet radiation and cataract: A review of the epidemiological evidence, "Br J Ophthalmol," and reprinted in Optometry Today Nov/Dec 1997," 78:478-482 (1994).

Dolin, P.J., Assessment of epidemiological evidence that exposure to solar ultraviolet radiation causes cataract, "Doc Ophthalmol," 88:327-337 (1994).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Doughty M.J., Cullen A., Long-term effects of a single dose of ultraviolet-B on albino rabbit cornea - II. Deturgescence and fluid pump assessed in vitro, "Photochem Photobiol," 54:439-449 (1990).

Doughty M.J., Cullen A.P., Long-term effects of a single dose of ultraviolet-B on albino rabbit cornea - I. In vivo analyses, "Photochem Photobiol," 49(2):185-196 (1989).

Doughty M.J., Cullen A.P., Monteith-McMaster C.A., Aqueous humour and crystalline lens changes associated with ultraviolet radiation or mechanical damage to corneal epithelium in freshwater rainbow trout eyes, "J Photochem Photobiol," 41(1-2):165-172 (1997).

Dovrat A., Weinreb O., Recovery of Lens Optics and Epithelial Enzymes after Ultraviolet A Radiation, "Invest Ophthalmol Vis Sci," 36(12):2417-2424 (1995).

Downes J.E., Swann P.G., Holmes R.S., Ultraviolet light-induced pathology in the eye: Associated changes in ocular aldehyde dehydrogenase and alcohol dehydrogenase activities, "Cornea," 12(3):241-248 (1993).

Drucker B., Shapiro L., Protective effect of occlusion on discoform degeneration, "Ann Ophthalmol," 20:118-119 (1988).

Dryja T.P., Kimball G.P., Albert D.M., Light stimulation of iris tyrosinase in vivo, "Invest Ophthalmol Vis Sci," 19(5):559-562 (1980).

Duke-Elder S., Radiational injuries, "Textbook of Ophthalmology," C.V. Mosby Co., St. Louis, MO, USA, 6: (1954).

Duke-Elder S., The pathological action of light on the eye I. Action of the outer eye, "Photophthalmia," Lancet, 1:1137-1141 (1926).

Duke-Elder S., McFaul P., Non-mechanical injuries, "System of Ophthalmology," C.V. Mosby Co., St. Louis, MO, USA, 14: (1972).

Duke-Elder W., Textbook of Ophthalmology, Vol 6 - Injuries, "Textbook of Ophthalmology, Vol 6 - Injuries," C.V. Mosby Co., St. Louis, MO, USA, (1954).

Duke-Elder W., The pathological action of light upon the eye, Part I, "Lancet," 91:1137-1141 (1926).

Duke-Elder W.S., The pathological action of light upon the eye, Part II Action upon the lens: Theory of the genesis of cataract, "Lancet," 1:1188-1191; 1250-1254 (1926).

Duke-Elder W.S., Duke-Elder P.M., A histological study on the action of short-waved light upon the eye, with a note on inclusion bodies, "Br J Ophthalmol," 13:1-37 (1929).

Duncan D.D., Shukla O.B., West S.K., Schein O.D., New objective classification system for nuclear opacification, "J Opt Soc Am A," 14(6):1197-1204 (1997).

Duncan, D.D., Munoz, B., Bandeen-Roche, K., West, S.K., Salisbury Eye Evaluation Project Team, Assessment of ocular exposure to ultraviolet-B for population studies, "Photochem Photobiol," 66(5):701-709 (1997).

Dwyer J.M., Solar photophthalmia, "Med J Australia," 1:523-525 (1947).

East E.J., Chang R.C.C., Yu N.-T., Kuck Jr. J.F.R., Raman spectroscopic measurement of total sulfhydryl in intact lens as affected by aging and ultraviolet irradiation, "J of Biol Chem," 253:1436-1441 (1978).

Ebbers R.W., Sears D., Ocular effects of a 325 nm ultraviolet laser, "Am J Optom Physiol Opt," 52:216-223 (1975).

Egyed M.N., Singer L., Eilat A., Shlosberg A., Eye lesions in ducklings fed Ammi majus seeds, "Zbl Vet Med A," 22:764-768 (1975).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Eisner A., Multiple components in photopic dark adaptation, "J Opt Soc America," 3:655 (1986).
- Ellerbock V.J., Incidence of ultraviolet radiation and transmission by the eye, "Am J Optom," 38(1):3-14 (1961).
- Elliot D.B., Bullimore M.A., Assessing the reliability, discriminative ability, and validity of disability glare tests, "Invest Ophthalmol Vis Sci," 34(1): (1993).
- Elliot R., The aetiology of pterygium, "Trans Ophthalmol Soc NZ," 13:22-41 (1961).
- Ellozy A.R., Wang R.H., Dillon J., Model studies on the photochemical production of lenticular fluorophores, "Photochem Photobiol," 59(4):479-484 (1994).
- Ellozy A.R., Wang R.H., Dillon J., Photolysis of intact young human, baboon and rhesus monkey lenses, "Photochem Photobiol," 59(4):474-478 (1994).
- Ewald R.A., Ritchey C.L., Sun gazing as the cause of foveomacular retinitis, "Am J Ophthalmol," 70(4):491-497 (1970).
- Eye Disease Case-Control Study Group, Antioxidant status and neovascular age-related macular degeneration, "Arch Ophthalmol," 111:104-109 (1993).
- Fanta H., The endangering of the eye with irradiation, "Wien Med Wschr," 116:1099-1102 (1966).
- Fasanella M., Unusual ultraviolet-ray burn of the eyes, "Am J Ophthalmol," 35:1358 (1952).
- Feeney-Burns L., Berman E.R., Rothman H., Lipofuscin of human retinal pigment epithelium, "Am J Ophthalmol," 90:783 (1980).
- Feeney-Burns L., Burns R., Gao C., Age-related macular changes in humans over 90 years old, "Am J Ophthalmol," 109:265-278 (1990).
- Fischer F.P., Vermeulen D., Eymers J.G., Uber die zue Schädigung des Auges notige Minimalquantitat von ultravioletten und infra roten Licht-Arch F Augenheilk, "Arch Augenheilk," 109:462-467 (1936).
- Fishman G.A., Ocular phototoxicity: Guidelines for selecting sunglasses, "Surv Ophthalmol," 31(2):119 (1986).
- Flick J.J., Ocular lesions following the atomic bombing of Hiroshima and Nagasaki, "Am J Ophthalmol," 31:137-154 (1948).
- Flynn J., Photo-retinitis in anti-aircraft lookouts, "Med J Aust," 2:400-401 (1942).
- Flynn J., Retinal burns after sun's eclipse, April 1959, "Trans Ophthalmol," 53:90-96 (1960).
- Forbes P.D., Influence of long wave UV on photocarcinogenesis, "1st Ann Mtg Am Soc Photobiol, Sarasota, FL," (1973).
- Foulks G.N., Friend J., Thoft R.A., Effects of ultraviolet radiation corneal epithelial metabolism, "Invest Ophthalmol Vis Sci," 17(7):694-697 (1978).
- Fraunfelder F.T., Hanna C., Spheroidal degeneration of cornea and conjunctiva, "Am J Ophthalmol," 76(1):41-50 (1973).
- Freeman R.G., Knox J.M., Ultraviolet-induced corneal tumors in different species and strains of animals, "J Invest Dermatol," 43:431-436 (1964).
- Freeman R.G., Troll D., Photosensitization of the eye by 8-methoxypsoralen, "J Invest Dermatol," 53:449-453 (1969).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Friedenwald J.S., Buschke W., Crowell J., Hollaender A., The effects of ultraviolet irradiation on the corneal epithelium, II. Exposure to monochromatic radiation, "J Cell Physiol," 32:161-173 (1948).

Friedman A., Climatic droplet keratopathy I. Clinical aspects, "Arch Ophthalmol," 89:193-197 (1973).

Friedman A., Pokorny K., Suhan J., Kornzweig A., Senile macular degeneration: Clinical, histopathological, and ultrastructural studies, "Mt Sinai J Med," 47:227-245 (1980).

Friedman E., Kuwabara T., The retinal pigment epithelium. The damaging effects of radiant energy, "Arch Ophthalmol," 80:265-279 (1968).

Fujisawa K., Sasaki K., Changes in light scattering intensity of the transparent lenses of subjects selected from population-based surveys depending on age: Analysis through Scheimpflug images, "Ophthalmic Res," 27:89-101 (1995).

Gallagher R., Human health, "Ozone Science: A Canadian Perspective on the Changing Ozone Layer," (edited by Wardle D.I., Kerr J.B., McElroy C.T., Francis D.R.) Environment Canada, Toronto, CAN, (1997).

Gao, J., Gelber-Schwalb, T.A., Addeo, J.V., Stern, M.E., Apoptosis in the Rabbit Cornea After Photorefractive Keratectomy, "Cornea," 16(2):200-208 (1997).

Garner M.H., Spector A., Sulfur oxidation in selected human cortical cataracts and nuclear cataracts, "Exp Eye Res," 31:361-369 (1980).

Gass J., Pathogenesis of macular detachment and degeneration, "Ophthalmic Forum," 2:8-17 (1984).

Geeraets W.J., Radiation effects on the eye, "The Sight Saving Review," 39:181-196 (1969).

Geeraets W.J., Berry E.R., Ocular spectral characteristics as related to hazards from lasers and other light sources, "Am J Ophthalmol," 66:15-20 (1968).

Ghafour I., Allan D., Foulds W., Common causes of blindness and visual handicap in the west of Scotland, "Br J Ophthalmol," 67:209-213 (1983).

Giangiacomo A., Olesen P.R., Ortwerth B.J., Ascorbic acid and glucose oxidation by ultraviolet-A generated oxygen free radicals, "Invest Ophthalmol Vis Sci," 37(8):1549-1556 (1996).

Gies H.P., Roy C.R., Elliot G., The anatomical distribution of solar UVR with emphasis on the eye, "Proceedings of the 7th International Congress of the IRPA, Sydney," Pergamon Press, 341-344 (1988).

Ginsberg H., LaVail M., Light-induced retinal degeneration in the mouse: An analysis of pigmentation mutants, "Retinal Degeneration: Experimental and Clinical Studies," (edited by LaVail M., Hollyfield J., Anderson R.) Alan R. Liss Company, New York, 449-469 (1985).

Gjessing H., Gibt es einen antagonismus zwischen cataracta senilis und haabscher seniler makulaveränderungen, "Acta Ophthalmologica," 31:4021-421 (1953).

Gjessing H., Gibt es einen antagonismus zwischen cataracta senilis und haabscher seniler makulaveränderungen, "Zeit Augenheilkd," 56:79-90 (1925).

Gladstone G., Tasma W., Solar retinitis after minimal exposure, "Arch Ophthalmol," 96:1368-1369 (1978).

Goldsmith R., Rothhammer F., Schull W., The multinational Andean genetic health program III. Ophthalmic disease and disability among the Aymara, "Bull Pan Amer Health Org," 13:58-65 (1980).

Goldstein H., The reported demography and causes of blindness throughout the world, "Adv Ophthalmol," 40:1-99 (1980).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Good G.W., Schoessler J.P., Chronic solar radiation exposure and endothelial polymegathism, "Curr Eye Res," 7(2):157-162 (1988).

Goodeve C.F., Vision in the ultraviolet, "Nature," 134:416-417 (1934).

Goosey J.D., Zigler Jr. J.S., Matheson I.B.C., Kinoshita J.H., Effects of singlet oxygen on human lens crystallins in vitro, "Invest Ophthalmol Vis Sci," 20(5):679-683 (1981).

Gottsch J.D., Graham C.R., Hiarston R.J., Chen C.H., Green W.R., Stark W.J., Protoporphyrin IX photosensitization of corneal endothelium, "Arch Ophthalmol," 107(10):1497-1500 (1989).

Grabner G., Brenner W., Unscheduled DNA repair in lens epithelium following in vivo and in vitro UV irradiation, "Ophthalmic Res," 14:160 (1982).

Graham W.P., The absorption of the eye for ultra-violet radiation, "Am J Physiol Opt," 4:152 (1923).

Gray R.H., Johnson G.J., Freedman A., Climatic droplet keratopathy, "Survey of Ophthalmology," 36(4):241-253 (1992).

Graziosi P., Rosmini F., Bonacini M., Ferrigno L., Sperduto R.D., Milton R.C., Maraini G., Location and Severity of Cortical Opacities in Different Regions of the Lens in Age-Related Cataract, "Invest Ophthalmol Vis Sci," 37(8):1698-1703 (1996).

Green W., Clinicopathologic studies of senile macular degeneration, "Ocular Pathology Update," (edited by Nicholson D.) Yearbook Medical Publishers, Chicago, 115-144 (1982).

Green W., Key S., Senile macular degeneration: a histopathologic study, "Trans Am Ophthalmol Soc," 75:180-254 (1977).

Green W., McDonnell P., Yeo J., Pathologic features of a senile macular degeneration, "Ophthalmology," 92:615-627 (1985).

Griffin A.C., Methoxsalen in ultraviolet cataractogenesis in the mouse, "J Invest Dermatol," 32:367-372 (1959).

Griffin A.C., Dolman V.S., Bohlke E.B., Bouvart P., Tatum E.L., The effect of visible light on the carcinogenicity of ultraviolet light, "Cancer Res," 15:532-538 (1955).

Griffin A.C., Hakim R.E., Knox J., The wavelength effects upon erythema and carcinogenic response to psoralen treated mice, "J Invest Dermatol," 31:289-295 (1958).

Grossniklaus H., Green W., Luckenbach M., Chan C., Conjunctival lesions in adults, "Cornea," 6:78-116 (1987).

Grover D., Zigman S., Coloration of human lenses by near-UV photo-oxidized tryptophan, "Exp Eye Res," 13:70-76 (1972).

Guerry R., Ham W., Mueller H., Light toxicity in the posterior segment, "Clinical Ophthalmology," (edited by Duane T.)3: (1985).

Guyer D., Alexander M., Auer C., Hamill M., Chamberlin J., Fine S., A comparison of the frequency and severity of macular drusen in phakic and non-phakic eyes, "Invest Ophthalmol Vis Sci," 27:20 (1986).

Hahn D.W., Ediger M.N., Pettit G.H., Dynamics of ablation plume particles generated during excimer laser corneal ablation, "Lasers Surg Med," 16:384-389 (1995).

Halevi H.S., Landau J., Hospitalized senile cataract in different Jewish communities in Israel, "Br J Ophthalmol," 46:285-290 (1962).

Ham Jr. W.T., Mueller H.A., Sliney D.H., Retinal sensitivity to damage from short wavelength light, "Nature," 260(5547):153-155 (1976).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Ham Jr. W.T., Williams R.C., Mueller H.A., Guerry D., Clarke A.M., Geeraets W.J., Effects of laser radiation on the mammalian eye, "Trans New York Acad Sci, Ser 2," 28:517-526 (1966).

Ham Jr., W.T., Geeraets W.J., Mueller H.A., Williams R.C., Clarke A.M., Cleary S.F., Retinal burn threshold for the helium-neon laser in the rhesus monkey, "Arch Ophthalmol," 84(12):797-808 (1970).

Ham W., Ocular hazards of light sources: Review of current knowledge, "J Occupat Med," 25:101-13 (1983).

Ham W., Mueller H., Ruffolo J., Guerry D., Solar retinopathy as a function of wavelength, "The Effects of Constant Light on Visual Processes," (edited by Williams T., Baker B.) Plenum Press, New York, 319-346 (1980).

Ham W., Mueller H., Ruffolo J., Guerry D., Guerry R., Action spectrum for retinal injury from near-ultraviolet radiation in the aphakic monkey, "Am J Ophthalmol," 93:299-306 (1982).

Ham W., Mueller H., Ruffolo J., Millen J., Cleary S., Guerry R., Guerry D., Basic mechanisms underlying the production of photochemical lesions in the mammalian retina, "Curr Eye Res," 3:165-174.

Ham W., Ruffolo J., Mueller H., Guerry D., The nature of retinal radiation damage: Dependence on wavelength, power level and exposure time, "Vision Res," 20:1105-1111 (1980).

Ham W.T., Cataract, "McGraw-Hill Encyclopedia of Science and Technology," .

Ham W.T., Mueller H.A., Clarke A.M., Retinal sensitivity to damage from short wavelength light, "Symposium on Biologic Effects and Measurement of Light Sources, US DHEW Publication 77-8002," Food and Drug Administration, Rockville, MD, 37-47 (1977).

Hamerski W., Investigations on histochemical changes in experimental corneal lesions induced with ultraviolet radiation and on prevention of photophthalmia, "Pol Med J," 8:6 (1969).

Harding J., , "Cataract -Biochemistry, Epidemiology and Pharmacology," Chapman and Hall, London, GBR, (1991).

Harding J.J., Changes in lens proteins in cataract, "Molecular and Cellular Biology of the Eye Lens," (edited by Bloemendal H.) John Wiley and Sons, New York, 327-365 (1981).

Harding J.J., Dilley K.J., Structural proteins of the mammalian lens: A review with emphasis on changes in development, aging and cataract, "Exp Eye Res," 22:1-73 (1976).

Harwerth R., Sperling H., Prolonged color blindness induced by intense spectral lights in rhesus monkeys, "Science," 174:520-523 (1971).

Hecht S., Hendley C.D., Ross S., Influence of exposure to intense sunlight on subsequent night vision, "Arch Ophthalmol," 44:625 (1950).

Hedblom E.E., Snowscape eye protection: Development of a sunglass for useful vision with comfort from Antarctic snowblindness, glare and calorophthalmis, "Arch Environ Health," 2:685-704 (1961).

Heinz K., Ultraviolet radiation and sunlight, "Ophthalmologica," 158:75-94 (1969).

Henkes H., Photoc injury to the retina and the manifestation of acute posterior multifocal placoid pigment epitheliopathy, "Doc Ophthalmol," 44:113-120 (1977).

Henkind P., Friedman A., Cancer of the lids and ocular adnexa, "Cancer of the Skin," (edited by Anrade R., Gumport S., Poplin G., Rees T.) (1976).

Hightower K., McCready J., Comparative effect of UVA and UVB on cultured rabbit lens, "Photochem Photobiol," 58(6):827-830 (1993).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Hightower K., McCready J., Mechanisms involved in cataract development following near-ultraviolet radiation of cultured lenses, "Curr Eye Res," 11(7):679-689 (1992).
- Hightower K., McCready J., Physiological effects of UVB irradiation on cultured rabbit lens, "Invest Ophthalmol Vis Sci," 33(5):1783-1787 (1992).
- Hightower K., McCready J., The role of calcium in UVB-induced damage in irradiated ocular lenses, "Photochem Photobiol," 65(1):155-160 (1997).
- Hightower K.R., McCready J.P., Borchman D., Membrane damage in UV-irradiated lenses, "Photochem Photobiol," 59(4):485-490 (1994).
- Hill J., Maske R., Pathogenesis of pterygium, "Eye," 3:218-226 (1989).
- Hill L., Action of ultraviolet rays, "Br J Phys Med," 9:7 (1934).
- Hillenkamp F., Interaction between laser radiation and biological systems, "Laser in Biology and Medicine," (edited by Hillenkamp F., Pratesi R., Sacchi C.A.) Plenum Press, 37-68 (1980).
- Hiller R., Giacometti L., Yuen K., Sunlight and cataract: an epidemiologic investigation, "Am J Epidemiol," 105:450-459 (1977).
- Hiller R., Sperduto R.D., Ederer F., Epidemiologic associations with cataract in the 1971-1972 national health and nutrition examination survey, "Am J Epidemiol," 118:239-249 (1983).
- Hiller R., Sperduto R.D., Ederer F., Epidemiologic associations with nuclear, cortical and posterior subcapsular cataracts, "Am J Epidemiol," 124:916-925 (1986).
- Hochheimer B., d'Anna s., Calkins J., Retinal damage from light, "Am J Ophthalmol," 88:109-144 (1979).
- Hockwin O., Lerman S., Ohrloff C., Investigations on lens transparency and its disturbances by microdensitometric analysis of Scheimpflug photographs, "Curr Eye Res," 3:15-22 (1984).
- Hockwin O., Weigelin E., Hendrickson P., Koch H.R., Kontrolle des trübungsverlaufs bei der cataracta senilis durch linsenphotographie in regredientem licht, "Klin Mbl Augenheilk," 166:498-503 (1975).
- Hogan M., Bruch's membrane and disease of the macula, "Trans Ophthalmol Soc UK," 87:113-161 (1967).
- Hogan M.J., Alvarado H.A., Waddell J.E., Histology of the human eye: An atlas and textbook, ", " Saunders W.B., Philadelphia, (1971).
- Hollaender A., Effects of ultraviolet radiation, "Ann Rev Physiol," 8:1-16 (1946).
- Hollows F., Moran D., Cataract - the ultraviolet risk factor, "Lancet," 2:1249-1250 (1981).
- Hoover H.L., Solar ultraviolet irradiation of human cornea, lens, and retina: equations of ocular irradiation, "Appl Opt," 25:359 (1986).
- Hoppeler T., Hendrickson P., Reme C., Morphology and time-course of defined photochemical lesions in the rabbit retina, "Curr Eye Res," 7(9):849-860 (1988).
- Hoshino M., Mizuno K., Ichikawa H., Aging alterations of retina and choroid of Japanese, "Jpn J Ophthalmol," 28:89-102 (1984).
- Hudnell Jr. A.B., Chick E.W., Corneal ultraviolet phototherapy, "Arch Ophthalmol," 62:304 (1962).
- Hull D.S., Csukas S., Green K., Trifluoperazine: corneal endothelial phototoxicity, "Photochem Photobiol," 38(4):425-428.

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Iqbal M., , "An Introduction to Solar Radiation," Academic Press, Toronto, (1983).

Italian-American Cataract Study Group, Risk factors for age-related cortical, nuclear and posterior subcapsular cataracts, "Am J Epidemiol," 133:541-553 (1991).

Jacobs G.H., Neitz J., Deegan III J.F., Retinal recaptors in rodents maximally sensitive to ultraviolet light, "Nature," 353:655-656 (1991).

Jacques P.F., Chylack L.T., Epidemiologic evidence of a role for the antioxidant vitamins and carotenoids in cataract prevention, "Am J Clin Nutr," 53:353-355 (1991).

Javitt J.C., Taylor H.R., Absorptive lenses: The need for ocular protection, "Clinical Modules for Ophthalmologists," (edited by Meltzer D.W., Isbey Jr. E.K., Miller D.) American Academy of Ophthalmology, 9(3):1-12 (1991).

Javitt J.C., Taylor H.R., Ocular protection from solar radiation, "Duane's Clinical Ophthalmology," (edited by Tasman W., Jaeger E.A.) J.B. Lippincott Company, Philadelphia, PA, USA, 5: (1991).

Jedziniak J.A., Kinoshita J.H., Yates E.M., Benedek G.B., The concentration and localization of heavy molecular weight aggregates in aging normal and cataractous lenses, "Exp Eye Res," 20:367-369 (1975).

Jedziniak J.A., Kinoshita J.H., Yates E.M., Hocker L.O., Benedek G.B., On the prescence and mechanism of formation of heavy molecular weight aggregates in human normal and cataractous lenses, "Exp Eye Res," 15:83-133 (1973).

Johnson G., Minassian D., Franken S., Alterations of the anterior lens capsule associated with climatic keratopathy, "Br J Ophthalmol," 73(3):229-234 (1989).

Johnson G.J., Aetiology of spheroidal degeneration of the cornea in Labrador, "Br J Ophthalmol," 65:270-283 (1981).

Johnson G.J., Ghosh M., Labrador keratopathy: Clinical and pathological findings, "Can J Ophthalmol," 10(2):119-135 (1975).

Johnson G.J., Overall M., History of spheroidal degeneration of the cornea in Labrador, "Br J Ophthalmol," 62(1):53-61 (1978).

Johnson M., Skuta G., Kincaid M., Nelson C., Wolter J., Malignant melanoma of the iris in xeroderma pigmentosum, "Arch Ophthalmol," 107:402-407 (1989).

Jones W.L., Allen W.H., Parker Jr. J.F., Advanced vision research for extended spaceflight, "Aerospace Med," 38:475-478 (1967).

Jose J.G., Posterior cataract induction by UV-B radiation in albino mice, "Exp Eye Res," 42:11-20 (1986).

Jose J.G., Pitts D.G., Wavelength dependency of cataracts in albino mice following chronic exposure, "Exp Eye Res," 41:545-563 (1985).

Jung H.H., Reme C.E., Pfeilschifter J., Light evoked inositol trisphosphate release in the rat retina in vitro, "Curr Eye Res," 12(8):727-732 (1993).

Kagan V., Kuliev I., Spirichev V., Accumulation of lipid peroxidation products and depression of retinal electrical activity in vitamin E deficient rates exposed to high intensity light, "Bull Exp Biol Med," 91:144-147 (1981).

Kahnemann F., Ricerche sperimentali sulle lesioni retiniche da raggi a breve lunghezza d'onda, "Ann Ottalm," 83:471-481 (1957).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Kaitz M., Auerbach E., Light damage in dystrophic and normal rats, "The Effects of Constant Light on Visual Processes," Plenum Press, New York, 179-193 (1980).
- Kamel I.D., Parker J.A., Protection from ultraviolet exposure in aphakic erythroptia, "Can J Ophthalmol," 9:563-565 (1973).
- Karai I., Horiguchi S., Pterygium in welders, "Br J Ophthalmol," 68:347-349 (1984).
- Kashima K., Trus B.L., Unser M., Edwards P.A., Datiles M.B., Aging studies on normal lens using the Scheimpflug slit-lamp camera, "Invest Ophthalmol Vis Sci," 34(1):263-269 (1993).
- Katoh N., Difference in the grading and type of lens opacification between both eyes examined in a population-based survey in three areas of Japan, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, 95-101 (1997).
- Katoh N., Ono M., Fujisawa K., Kojima M., Sakamoto Y., Sasaki K., Relationship between pure cortical cataract appearance and the wearing of glasses: A preliminary report of a case control study performed on the subjects of the Noto area, Japan, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, 56-62 (1997).
- Katz M., Robison W., Dratz E., Potential role of autooxidation in age changes of the retina and retinal pigment epithelium, "Free Radicals in Molecular Biology, Aging and Disease," (edited by Armstrong D., Sohal R., Cutler R.) (1984).
- Kelner A., Effect of visible light on the recovery of streptomyces griseus conidia from ultraviolet irradiation injury, "Proc Nat Acad Sci," 35:73-79 (1949).
- Kennedy, M., Kim, K.H., Harten, B., Brown, J., Planck, S., Meshul, C., Edelhauser, H., Ultraviolet irradiation induces the production of multiple cytokines by human corneal cells, "Invest Ophthalmol Vis Sci," 38(12):2483-2491 (1997).
- Kini M., Leibowitz H., Colton H., Nickerson R., Ganley J., Dawber T., Prevalence of senile macular degeneration and open-angle glaucoma in the Framingham eye study, "Am J Ophthalmol," 85:28-34 (1978).
- Kinsey V.E., Spectral transmission of the eye to ultraviolet radiations, "Arch Ophthalmol," 39:508-513 (1948).
- Kinsey V.E., Cogan D.G., Drinker P., Measuring eye flash from arc welding, "J.A.M.A.," 123:403-404 (1943).
- Klein B., Klein R., Cataracts and macular degeneration in older Americans, "Arch Ophthalmol," 100:571-573 (1982).
- Klein B.E.K., Klein R., Linton K.L.P., Prevalence of age-related lens opacities in a population: The Beaver Dam eye study, "Ophthalmol," 99(4):546-552 (1992).
- Kline B.E., Rusch H.P., Effects of prolonged irradiation of mice with fluorescent light, "Proc Soc Exp Biol Med," 60:254-255 (1945).
- Knox J.M., et. al., Protection from ultraviolet carcinogenesis, "J Invest Dermatol," 34:51 (1960).
- Konatsu M., Kanagami S., Shimizu K., Ultraviolet-absorbing intraocular lens versus non-UV-absorbing intraocular lens: Comparison of angiographic cystoid macular edema, "J Cataract Refract Surg," 15(6):654-657 (1989).
- Kraff M.C., Sanders D.R., Jampol L.M., Lieberman H.L., Effect of an ultraviolet-filtering intraocular lens on cystoid macular edema, "Ophthalmology," 92:366-369 (1985).
- Kremers J., van Norren D., Two classes of photochemical damage in the retina, "Lasers Light Ophthalmol," 2:41-52 (1988).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Krinsky N., Deneke S., Interaction of oxygen and oxy-radicals with carotenoids, "J Nat Cauc Int," 69:205-210 (1982).
- Krishna C.M., Uppuluri S., Riesz P., Zigler Jr. J.S., Balasubramanian D., A study of the photodynamic efficiencies of some eye lens constituents, "Photochem Photobiol," 54(1):51-58 (1991).
- Kristensen S., Wang B., Tonnesen H.H., Dillon J., Roberts J.E., Photoreactivity of biologically active compounds VIII. Photosensitized polymerization of lens proteins by antimalarial drugs, "Photochem Photobiol," 61(2):124-130 (1995).
- Kubitschek H.E., Mutagenesis by near-visible light, "Science," 155:1545-1546 (1967).
- Kuck Jr. J.F.R., Effect of long-wave ultraviolet light on the lens I. Model systems for detecting and measuring effect on the lens in vitro, "Invest Ophthalmol," 15(5):405-407 (1976).
- Kurtin W.E., Zuclich J., Action spectrum for oxygen-dependent near-ultraviolet induced corneal damage, "Photochem Photobiol," 27:329-333 (1978).
- Kurzel R.B., On the nature of the action spectrum for ultraviolet photokeratitis, "Ophthalmic Res," 40:312-315 (1978).
- Kurzel R.B., Wolbarsht M., Yamanashi B.S., Staton G.W., Borkman R.F., Tryptophan excited states and cataracts in the human lens, "Nature," 241(5385):132-133 (1973).
- Kurzel R.B., Wolbarsht M.L., Yamanashi B.S., Spectral studies on normal and cataractous intact human lenses, "Exp Eye Res," 17:65-71 (1973).
- Kurzel R.B., Wolbarsht M.L., Yamanashi B.S., Ultraviolet radiation effects on the human eye, "Photochemical and Photobiological Reviews," (edited by Smith K.C.) Plenum Publishing, 2:133-167 (1977).
- Kutscher C.F., Ocular effects of radiant energy, "Trans Am Acad Ophth Otolaryngol," 50:230-241 (1946).
- Kuwabara T., Photic and photo-thermal effects on the retinal pigment epithelium, "The Retinal Pigment Epithelium," (edited by Marmor M., Zinn K.) Harvard University Press, Cambridge, 293-313 (1979).
- Kuwabara T., Retinal recovery from exposure to light, "Am J Ophthalmol," 70(2): (1970).
- Kuwabara T., Gorn R., Retinal damage by visible light, "Arch Ophthalmol," 79:69-78 (1968).
- Kuwabara T., Kinoshita J.H., Cogan D.G., Electron microscopic study of galactose-induced cataract, "Invest Ophthalmol," 8:133-149 (1969).
- L'Esperance Jr. F.A., An ophthalmic argon laser photocoagulation system: Design, construction and laboratory investigations, "Tr Am Ophthalmol Soc," 66:827--904 (1968).
- Landry R.J., Pettit G.H., Hahn D.W., Ediger M.N., Yang G.C., Preliminary evidence of free radical formation during argon fluoride excimer laser irradiation of corneal tissue, "Lasers Light Ophthalmol," 6(2):87-90 (1994).
- Lattimore M.R., Ultraviolet radiation effects on the corneal epithelium, "US Army Aeromedical Research Laboratory Report 91-10," Fort Rucker, (1991).
- LaVail M., Eye pigmentation and constant light damage in the rat retina, "The Effects of Constant Light on Visual Processes," (edited by Williams T., Baker B.) Plenum Press, New York, 357-387 (1980).
- LaVail M., Gorrin G., Repaci M., Thomas L., Ginsberg H., Genetic regulation of light damage to photoreceptors, "Invest Ophthalmol Vis Sci," 28:1043-1048 (1987).
- Lawrence H.M., Reynolds T.R., Erythrospiral phototoxicity associated with nonultraviolet-filtering intraocular lenses, "J Cataract Refract Surg," 15(5):569-572 (1989).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Lawwill T., The ERG and its correlation with damage caused by chronic exposure to light, "Doc Ophthalmol Proc," 2:65-76 (1972).
- Lawwill T., Crockett S., Currier G., Retinal damage secondary to chronic light exposure, "Doc Ophthalmol," 44:379-402 (1977).
- Laycock K.A., Lee S.F., Brady R.H., Repose J.S., Characterization of a murine model of recurrent herpes simplex viral keratitis induced by ultraviolet B radiation, "Invest Ophthalmol Vis Sci," 32:2741-2746 (1991).
- Lea P.J., Hollenberg M.J., Menon I.A., Temkin R.J., Persad S.D., Basu P., High resolution scanning microscopy of rabbit corneal endothelium to show effects of UV-visible irradiation in the presence of chlorpromazine, "Lens Eye Toxic Res," 6(1-2):119-133 (1989).
- Leach W.M., , "Biological Aspects of Ultraviolet Radiation, A Review of Hazards," US Public Health Service, Bureau of Radiological Health, BRH/ODE 70-3, Rockville, MD, (1970).
- Lee G.A., Hirst L.w., Ocular surface squamous neoplasia, "Surv Ophthalmol," 39(6):429-449 (1995).
- Legeais J.-M., Parel J.-M., Savoldelli M., Drubaix I., Soderberg P., Manns F., Corneal wound healing after photoablation with a 213 nm scanning solid-state laser, "SPIE," 2393:61-68 (1995).
- Lembers A., Hu X., Kalmus G.W., Absorption spectra of corneas in the far ultraviolet region, "Invest Ophthalmol Vis Sci," 38(6):1283-1287 (1997).
- Lemercier G., Cornand G., Burckhart M., Pinguecula et pterygion: etude histopathologique et ultrastructure, "Virchows Arch Pathol Anat," 379:321-333 (1978).
- Lepper A.W., Barton I.J., Infectious bovine keratoconjunctivitis: Seasonal variation in cultural, biochemical and immunoreactive properties of *Moraxella bovis* isolated from the eyes of cattle, "Aust Vet J," 64(2):33-39 (1987).
- Lerman S., , "Radiant Energy and the Eye," Macmillan Publishing, New York, (1980).
- Lerman S., An experimental and clinical evaluation of the lens transparency and aging, "J Geront," 38:293-301 (1983).
- Lerman S., Chemical and physical properties of the normal and aging lens: Spectroscopic (UV, fluorescence, phosphorescence, and NMR) analysis, "Am J Optom Physiol Opt," 64:11-22 (1987).
- Lerman S., Human ultraviolet radiation cataracts, "Ophthalmic Res," 12:303-314 (1980).
- Lerman S., In vivo lens fluorescence photography, "Ophthalmic Res," 13:224-228 (1981).
- Lerman S., Lens fluorescence in aging and cataract formation, "Documenta Ophthalmologica Proceedings Series - Progress of Lens Biochemistry Research," (edited by Junk W.) b.v. Publishers, The Hague, 41-60 (1976).
- Lerman S., Lens proteins and fluorescence, "Isr J Med Sci," 8:1583-1589 (1972).
- Lerman S., Lens transparency and aging, "Proceedings of the Symposium on Ageing of the Lens held in Paris, 29-30 Sept. 1979," (edited by Regnault F., Hockwin O., Courtois Y.) Elsevier/North-Holland Biomedical Press, Amsterdam, New York, Oxford, 263-279 (1980).
- Lerman S., Light-induced changes in ocular tissues, "Clinical Light Damage to the Eye," (edited by Miller D.) Springer-Verlag, New York, NY, 183-215 (1987).
- Lerman S., Ocular phototoxicity, "New Engl J Med," 319(22):1475-1477 (1985).
- Lerman S., Photosensitizing drugs and their possible role in enhancing ocular toxicity, "J Ophthalmol," 93:304-318 (1986).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Lerman S., Borkman R., Spectroscopic evaluation and classification of the normal, aging and cataractous lens, "Ophthal Res," 8:335-353 (1976).
- Lerman S., Borkman R., Ultraviolet radiation in the aging and cataractous lens, "Acta Ophthalmol," 58:139-149 (1977).
- Lerman S., Borkman R.F., A method for detecting 8-ethoxypsoralen in the ocular lens, "Science," 197:1287-1288 (1977).
- Lerman S., Kuck J., Borkman R., Saker E., Accelerator of an aging parameter (fluorigen) in the ocular lens, "Annal Ophthalmol," 8:558-561 (1976).
- Lerman S., Kuck J.F.K., Borkman R.F., Saker E., Induction, acceleration and prevention (in vitro) of an aging parameter in the ocular lens, "Ophthalmic Res," 8:213-226 (1976).
- Lerman S., Mandal K., Misra B., Schechter A., Schenck J., Phototoxicity involving the ocular lens: In vivo and in vitro studies, "Photochem Photobiol," 53(2):243-247 (1991).
- Lerman S., Megaw J., Gardner K., Optical spectroscopy as an in vitro method monitor aldose reductase inhibitors in the lens, "Invest Ophthalmol Vis Sci," 24:1505-1510 (1983).
- Lerman S., Megaw J., Gardner K., Psoralen--long-wave ultraviolet therapy and human cataractogenesis, "Invest Ophthalmol Vis Sci," 23(6):801-804 (1982).
- Lerman S., Moran M., Matthews N., Photographic and spectroscopic correlation of human cataracts, "Ophthalmic Res," 21:18-26 (1989).
- Leske M.C., Chylack L.T., Wu S., The lens opacities case-control study: Risk factors for cataract, "Arch Ophthalmol," 109:244-251 (1991).
- Leske M.C., Connell A.M., Wu S.Y., Hyman L.g., Schachat A.P., Risk factors for open-angle glaucoma, the Barbados eye study, "Arch Ophthalmol," 113:918-924 (1995).
- Li Z.L., Tso M., Jampol L., Miller S., Waxler M., Retinal injury induced by near-ultraviolet radiation in aphakic and pseudophakic monkey eyes, "Retina," 10:301-314 (1990).
- Linetsky M., James H.L., Ortwerth B.J., The generation of superoxide anion by the UVA irradiation of human lens proteins, "Exp Eye Res," 63:67-74 (1996).
- Linetsky M., Ortwerth B.J., Quantitation of the reactive oxygen species generated by the UVA irradiation of ascorbic acid-glycated lens proteins, "Photochem Photobiol," 63(5):649-655 (1996).
- Linetsky M., Ortwerth B.J., The generation of hydrogen peroxide by the UVA irradiation of human lens proteins, "Photochem Photobiol," 62(1):87-93 (1995).
- Linsenmeier R., Effects of light and darkness on oxygen distribution and consumption in the cat retina, "J Gen Physiol," 88:521-542 (1986).
- Lipkin M., Bailey O., Hardy J.D., , "The Effect of Ultraviolet Irradiation Upon the Cutaneous Pain Threshold, Rept. No. NADC-MA-5414," (1954).
- Lippincott S.W., Blum H.F., Neoplasms and other lesions of the eye induced by ultraviolet radiation in strain A mice, "J Nat Canc Inst," 3:545-554 (1943).
- Liu I., White L., LaCroix A., The association of age-related macular degeneration and lens opacities in the aged, "Am J Publ Health," 96:1552-1558 (1989).
- Lofgren S., Soderberg P.G., Rat lens glycolysis after in vivo exposure to narrow band UV or blue light radiation, "J Photochem Photobiol," 30:145-151 (1995).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Ludvigh E., McCarthy E.F., Absorption of visible light by the refractive media of the human eye, "AMA Arch Ophthalmol," 20:37-51 (1938).
- Lytle C.D., Tarone R.E., Barrett S.F., Wirtschafter J.D., Dupuy J.M., Robbins J.H., Host cell reactivation by fibroblasts from patients with pigmentary degeneration of the retina, "Photochem Photobiol," 37(5):503-508 (1983).
- MacDonald A., Causes of blindness, "Can Med Assoc J," 92:264-279 (1965).
- MacFaul P., Visual prognosis after solar retinopathy, "Br J Ophthalmol," 53:534-541 (1970).
- MacKeen D.S., Fine S., Fine B.S., Production of cataracts in rabbits with an ultraviolet laser, "Ophth Res," 5:317-324 (1973).
- MacKeen D.S., Fine S., Fine B.S., Production of cataracts in rabbits with an ultraviolet laser, "Ophth Res," 6:259-270 (1974).
- Mackenzie F., Hirst L., Battistutta D., Green A., Risk analysis in the development of pterygium, "Ophthalmology," 99:1056-1061 (1992).
- Magno B.V., Freidlin V., Datiles III M.B., Reproducibility of the NEI Scheimpflug cataract imaging system, "Invest Ophthalmol Vis Sci," 35(7):3078-3084 (1994).
- Mainster M., Solar retinitis, photic maculopathy and the pseudophakic eye, "Am Intra-ocular Implant Soc J," 4:84-86 (1978).
- Mainster M.A., Light and macular degeneration: A biophysical and clinical perspective, "Eye," 1:304-310 (1987).
- Mainster M.A., The spectra, classification, and rationale of ultraviolet-protective intraocular lenses, "Am J Ophthalmol," 102:727-732 (1986).
- Mainster M.A., Sliney D.H., Marshall J., Warren K.A., Timberlake G.T., Trokel S.L., But is it really light damage?, "Ophthalmology," 104(2):179-180 (1997).
- Maloof A.J., Ho A., Coroneo M.T., Influence of corneal shape on limbal light focusing, "Invest Ophthalmol Vis Sci," 35(5):2592-2598 (1994).
- Mapstone R., Determinants of corneal temperature, "Br J Ophthalmol," 52:729-741 (1968).
- Maraini G., Pasquini P., Sparduto R.D., et. al., Distribution of lens opacities in the Italian-American case-control study of age-related cataract, "Ophthalmology," 97:752-756 (1990).
- Mariani G., Pasquini P., Tombo M.C., Bonacini M., Stanzi M.A., Rosmini F., Sperduto R.D., The Italian-American cataract study group. An independent evaluation of the lens opacities classification system II (LOCSII), "Ophthalmology," 96:611-615 (1989).
- Marlor R., Blais B., Preston F., Boyden D., Foveomacular retinitis, an important problem in military medicine: Epidemiology, "Ophthalmology," 12:5-16 (1973).
- Martin E., The effects of ultraviolet rays upon the eye, "Proc Roy Soc London," 885:319-330 (1912).
- Martinez G., Campbell A., Reinken J., Allen B., Prevalence of ocular disease in a population study of subjects 65 years old and older, "Am J Ophthalmol," 94:181-189 (1982).
- Masters B.R., Optical tomography of the in vivo human lens: three-dimensional visualization of cataracts, "J Biomed Opt," 1(3):289-295 (1996).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Masters B.R., Sasaki K., Sakamoto Y., Kojima M., Emori Y., Senft S.L., Foster M., Three-dimensional volume visualization of the in vivo human ocular lens showing localization of the cataract, "Ophthalmic Res," 28(supp 2):120-126 (1996).

Matelsky I., Biological effects of ultraviolet, "Information sheet," General Electric Company, (1964).

McCally R.L., Farrell R.A., Barger C.B., Corneal epithelial damage thresholds in rabbits exposed to Tm:YAG laser radiation at 2.02 μ m, "Lasers Surg Med," 12:598-603 (1992).

McCarty C.A., Lee S.E., Livingston P.M., Taylor H.R., Assessment of lifetime ocular exposure to UV-B: The Melbourne visual impairment project, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, 9-13 (1997).

McCoy J.N., The solar keratoses and cutaneous cancer, "Arch Derm Syph," 1:175-181 (1920).

McDonald H., Harris M., Operating microscope induced retinal phototoxicity during pars plana vitrectomy, "Arch Ophthalmol," 106:521-523 (1988).

McDonald H., Irvine A., Light-induced maculopathy from the operating microscope in extracapsular cataract extraction and intraocular lens implantation, "Arch Ophthalmol," 108:727-733 (1990).

Mellerio J., Light absorption and scatter in the human lens, "Vision Res," 11:129-141 (1971).

Mellerio J., Yellowing of the human lens: Nuclear and cortical contributions, "Vision Res," 27(9):1581-1587 (1987).

Merriam J.C., The concentration of light in the human lens, "Tr Am Ophth Soc," 94:804-918 (1996).

Michael R., "Threshold Dose Estimation for Ultraviolet Radiation Induced cataract," Karolinska Institute, Department of Ear, Eye, Skin, Stockholm, Sweden, (1997).

Michael R., Vrensen, G.F.J.M., van Marle, J., Gan, L., Södderberg, P.G., Apoptosis in the rat lens after in vivo threshold dose ultraviolet irradiation, "Invest Ophthal & Visual Sci," 39(13):2681-2687 (1998).

Miller D., Effect of sunglasses on the visual mechanism, "Surv Ophthalmol," 19:38-44 (1974).

Miller D., Light in the cornea and conjunctiva, "Clinical Light Damage to the Eye," (edited by Miller D.) Springer-Verlag, New York, NY, 55-63 (1987).

Miranda M.N., Environmental temperature and senile cataract, "Tr Am Ophthalmol Soc," 78:255-264 (1980).

Miranda M.N., The geographic factor In the onset of presbyopia, "Tr Am Ophthalmol Soc," 77:603-621 (1979).

Mitchell, P., Cummings, R.G., Attebo, K., Panchapakesan, J., Prevalence of cataract in Australia: the Blue Mountains Eye Study, "Ophthalmology," 104:581-588 (1997).

Mohan M., Sperduto R., Angra S., Milon R., Mathur R., India-US case-control study of age-related cataracts, "Arch Ophthalmol," 107:670-676 (1989).

Mohan R.C., Balasubramanian D., Chakrabarti B., Monitoring light induced changes in isolated intact eye lenses, "Photochem Photobiol," 46:511-515 (1987).

Monnier V.M., Cerami A., Non-enzymatic browning in vivo: possible process for ageing of long-lived proteins, "Science," 211:491-493 (1981).

Moran D., Hollands F., Pterygium and ultraviolet radiation: a positive correlation, "Br J Ophthalmol," 68:343-346 (1984).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Muller-Breitenkamp U., Hockwin O., Sickmann H., Dragomirescu V., Ultraviolet radiation as cataract risk factor - a case report, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, 76-80 (1997).

Munich W., Research on the ultraviolet absorption of normal and inflammatorily altered aqueous humor, "Docum Ophthalm (den Haag)," 11:257-263 (1957).

Ninnemann H., Photoreceptors for circadian rhythms, ", " 4:207-266 (1979).

Noell W., Walker V., Kang B., Berma S., Retinal damage by light in rats, "Invest Ophthalmol," 5:450-473 (1966).

Norn M., Prevalence of pinguecula in Greenland and in Copenhagen, and its relation to pterygium and spheroidal degeneration, "Acta Ophthalmol," 957:96-105 (1979).

NRPB, , "Board Statement on Effects of Ultraviolet Radiation on Human Health, and Health Effects from Ultraviolet Radiation," National Radiological Protection Board, ISBN 0-85951-387-4, Chilton, UK, 6(2): (1995).

Nuss R.C., Puliafito C.A., Dehm E., Unscheduled DNA synthesis following excimer laser ablation of the cornea in vivo, "Invest Ophthalmol Vis Sci," 28(2):287-294 (1987).

Occhipinti J.R., Mosier M.A., Burstein N.L., Autofluorescence and light transmission in the ageing crystalline lens, "Ophthalmologica," 192:203-209 (1986).

Olsen E.G., Ringvold A., Human cornea endothelium and ultraviolet radiation, "Acta Ophthalmologica," 60:54-56 (1982).

Olson E.G., Ringvold A., Human cornea endothelium and ultraviolet radiation, "ACTA Ophthalmologica," 60:54-56 (1982).

Ono M., Preliminary study on exposure measurement of ultraviolet radiation, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, 81-88 (1997).

Ortwerth B.J., Linetsky M., Olesen P.R., Ascorbic acid glycation of lens proteins produces UVA sensitizers similar to those in human lens, "Photochem Photobiol," 62(3):454-462 (1995).

Ortwerth B.J., Olesen P.R., UVA photolysis using the protein-bound sensitizers present in human lens, "Photochem Photobiol," 60(1):53-60 (1994).

Osuntokun O., Olurin O., Cataract and cataract extraction in Nigerians: an evaluation of 567 extractions, "Br J Ophthalmol," 57:27-33 (1973).

Paridaens A., McCartney A., Hungerford J., Premalignant melanosis of the conjunctiva and the cornea in xeroderma pigmentosa, "Br J Ophthalmol," 76:120-122 (1992).

Parvova-Djurova T., Vassileva P., Cataract prevalence study in Bulgaria, "Dev Ophthalmol," 17:47-51 (1989).

Peckar C.O., The aetiology and histo-pathogenesis of pterygium. A review of the literature and a hypothesis, "Doc Ophthalmol," 31:141-157 (1972).

Peckman R.H., Harley R.D., The effect of sunglasses in protecting retinal sensitivity, "Am J Ophthalmol," 172:76-79 (1971).

Perkins, E.S., The association between pinguecula, sunlight and cataract, "Ophthalmic Res," 17:325-330 (1985).

Petrovich Y.A., Effect of ultraviolet irradiation on the permeability to proteins, radiocalcium, and radiophosphorus of the capillaries of the anterior portion of the eye, "Bull Exp Biol Med," 44:1088-1092 (1957).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Pierscionek B.K., Aging changes in the optical elements of the eye, "J Biomed Opt," 1(2):147-156.
- Pinckers A., Cruysberg J.R.M., Liem T.A., Chromatopsia, "Doc Ophthalmol," 72:385-390 (1989).
- Pirie A., Colour and solubility of the proteins of human cataracts, "Invest Ophthalmol," 7:634-650 (1968).
- Pirie A., Formation of N-Formylkynurenine in proteins from lens and other sources by exposure to sunlight, "Biochem J," 125:203-208 (1971).
- Pirie A., Photo-oxidation of proteins and comparison of photo-oxidized proteins with those of cataractous human lenses, "Isr Med Sci," 8:1567-1573 (1972).
- Pirie A., The effects of sunlight on proteins of the lens, "Contemporary Ophthalmology," (edited by Williams J.B.) Wilkins, Baltimore, MD, 494-501 (1972).
- Pitts D., Ocular effects of radiant energy, "Vision and the Environment," (edited by Pitts D., Kleinstein R.) (1993).
- Pitts D., Bergmanson J., Chu L., Ultrastructural analysis of corneal exposure to UV radiation, "Acta Ophthalmol," 65:263-273.
- Pitts D.G., A comparative study of the effects of ultraviolet radiation on the eye, "Am J Optom," 50:535-546 (1970).
- Pitts D.G., The ocular effects of ultraviolet radiation, "Am J Optom Physiol Opt," 55:19-35 (1978).
- Pitts D.G., The ocular ultraviolet action spectrum and protection criteria, "Health Physics," 25:559-566 (1973).
- Pitts D.G., Threat of ultraviolet radiation to the eye - how to protect against it, "J Am Optom Assn," 52(12):949-957 (1981).
- Pitts D.G., Bergmanson J.P.G., Chu L., Rabbit eye exposure to broad-spectrum fluorescent light, "Acta Ophthalmol Suppl.," 159: (1983).
- Pitts D.G., Cameron L.L., Jose J.G., Lerman S., Moss E., Varma S.D., Zigler S., Optical radiation and cataracts, "Optical Radiation and Visual Health," (edited by Waxler M., Hitchins V.) CRC Press, Boca Raton, FL, 5-41 (1986).
- Pitts D.G., Cullen A.P., Hacker P.D., Ocular effects of ultraviolet radiation from 295 to 365 nm, "Invest Ophthalmol Vis Sci," 16:932-939 (1977).
- Pitts D.G., Cullen A.P., Hacker P.D., Parr W.H., Ocular ultraviolet effects from 295 nm to 400 nm in the rabbit eye, "DHEW (NIOSH) Publication 77-175," US Department of Health, Education and Welfare, Cincinnati, OH, USA, (1977).
- Pitts D.G., Cullen A.P., Parr W.H., Ocular ultraviolet effects from 295 nm to 335 nm in the rabbit eye, "DHEW (NIOSH) Publication 77-130," US Dept of Health, Education and Welfare, Cincinnati, OH, USA, (1976).
- Pitts D.G., Gibbons W.D., "The Human, Primate and Rabbit Ultraviolet Action Spectra," Univ of Houston, College of Optometry, Houston, TX, (1972).
- Pitts D.G., Gibbons W.D., Corneal light scatter measurements of ultraviolet radiant exposures, "Am J Ophthalmol," 50:187-194 (1973).
- Pitts D.G., Kay K.R., The photo-ophthalmic threshold for the rabbit, "Am J Optom," 46:561-572 (1969).
- Pitts D.G., Prince J.E., Butcher W.I., Kay K.R., Bowman R.W., Casey H.W., Richey D.G., The effects of ultraviolet radiation on the eye, "SAM-TR-69-10, USAF School of Aerospace Medicine," Brooks AFB, (1969).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Pitts D.G., Tredici T.J., The effects of ultraviolet on the eye, "Am Ind Hyg Assoc J," 32:235-246 (1971).
- Ponte F., Giuffre G., Study of the prevalence of cataract and of the influence of solar radiation on its development in Italy. Motivation and operational protocol, "Dev Ophthalmol," 17:110-113 (1989).
- Rapp L., Tolman B., Dhindsa H., Separate mechanisms for retinal damage by ultraviolet-A and mid-visible light, "Invest Ophthalmol vis Sci," 31:1186-1190 (1990).
- Rapp L., Williams T., Damage to the albino rat retina produced by low intensity light, "Photochem Photobiol," 29:731-733 (1979).
- Rapp L., Williams T., The role of ocular pigmentation in protecting against retinal light damage, "Vision Res," 20:1127-1131 (1980).
- Rapp L.M., Fisher P.L., Dhindsa H.S., Reduced rate of rod outer segment disk synthesis in photoreceptor cells recovering from UVA light damage, "Invest Ophthalmol Vis Sci," 35(9):3540-3548 (1994).
- Rapp L.M., Jose J.G., Pitts D.G., DNA repair synthesis in the rat retina following in vivo exposure to 300 nm radiation, "Invest Ophthalmol Vis Sci," 26:384-388 (1985).
- Reddy G.B., Bhat K.S., UVB irradiation alters the activities and kinetic properties of the enzymes of energy metabolism in rat lens during aging, "Journal of Photochemistry and Photobiology," 42(1):40-46 (1998).
- Remky vH., Amalric P., Zur geschichte der photochirurgie des auges, "Gesnerus," 47:67-82 (1990).
- Ren Q., Simon G., Legeais J.M., Parel J.M., Culbertson W., Shen J., Takesue U., Ultraviolet Solid-state Laser (213-nm) Photorefractive Keratectomy In Vivo Study, "Ophthalmology," 101(5):883-889 (1994).
- Ringvold A., Aqueous humour and ultraviolet radiation, "Acta Ophthalmologica," 58:69-82 (1980).
- Ringvold A., Cornea and ultraviolet radiation, "Acta Ophthalmologica," 58:63-68 (1980).
- Ringvold A., Damage of the cornea epithelium caused by ultraviolet radiation: A scanning electron microscopic study in rabbit, "Acta Ophthalmologica," 61:898-907 (1983).
- Ringvold A., Davanger M., Changes in the rabbit corneal stroma caused by UV-radiation, "Acta Ophthalmologica," 63:601-606 (1985).
- Ringvold A., Davanger M., Olsen E.G., Changes of the cornea endothelium after ultraviolet radiation, "Acta Ophthalmologica," 60:41-53 (1982).
- Robertson J., Donner A.P., Trevithick J.R., A possible role for vitamins C and E in cataract prevention, "Am J Clin Nutr," 53:346-351 (1991).
- Robertson J., Fielder A.R., Light and the immature visual system, "Eye," 6:166-172 (1992).
- Robison W., Kuwabara T., Bieri J., The roles of vitamin E and unsaturated fatty acids in the visual process, "Retina," 2:42-47 (1982).
- Roenneberg, T., Foster, R.G., Twilight Times: light and the circadian system, "Photochem Photobiol," 66(5):549-561 (1997).
- Rog S.J., White C.W., Williams T.T., Ultraviolet effects on visual acuity in pseudophakia, "Am J Optom Physiol Opt," 63(11):867-872 (1986).
- Rog s.J., White C.W., Williams T.T., Ultraviolet effects on visual acuity in pseudophakia, "Am J Optom Physiol Opt," 63(11):867-872 (1986).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Roger F.C., Cuthill J.A., Fyvelor P.J., Lenham, Ultraviolet radiation as a possible cause of cornea degenerative changes under certain physiographic conditions, "Acta Ophthalmologica," 52:777-785 (1974).
- Rojas J., Malaga H., Pterygium in Lima, Peru, "Ann Ophthalmol," 18:147-149 (1986).
- Rosen E., Solar retinitis, "Br J Ophthalmol," 32:23-35 (1948).
- Rosenbluth R., Fatt I., Temperature measurements in the eye, "Exp Eye Res," 25:235-341 (1977).
- Rosenthal F.S., Bakalian A.e., Lou C., Taylor H.R., The effect of sunglasses on ocular exposure to ultraviolet radiation, "Am J Publ Health," 78:72-74 (1988).
- Rosenthal F.S., Bakalian A.E., Taylor H.R., The effect of prescription eyewear on ocular exposure to ultraviolet radiation, "Am J Publ Health," 76:1216 (1986).
- Rosenthal F.S., Phoon C., Bakalian A.E., Taylor H.R., The ocular dose of ultraviolet radiation to outdoor workers, "Invest Ophthalmol Vis Sci," 29(4):649 (1988).
- Rosenthal F.S., Safran M., Taylor H.R., The ocular dose of ultraviolet radiation from sunlight exposure, "Photochem Photobiol," 42:163-171 (1985).
- Rosenthal F.S., West S.K., Munoz B., Emmett E.A., Strickland P.T., Taylor H.R., Ocular and facial skin exposure to ultraviolet radiation in sunlight: A personal exposure model with application to a worker population, "Health Physics," 61(1):77-86 (1991).
- Ross P., Carter D., Actinic DNA damage and the pathogenesis of cutaneous malignant melanoma, "J Invest Dermatol," 92:293S-296S (1989).
- Ross W., Light-induced maculopathy, "Ann J Ophthalmol," 98:488-493 (1984).
- Ruffolo J., Ham W., Mueller H., Millen J., Photochemical lesions in the primate retina under conditions of elevated blood oxygen, "Invest Ophthalmol Vis Sci," 25:893-898 (1984).
- Rundel R., Action spectra and estimation of biologically effective UV radiation, "Physiol Plant," 58:360-366 (1983).
- Rysa P., Sarvaranta J., Corneal temperature in man and rabbit, observations made using an infra-red camera and a cold chamber, "Acta Ophthalmol," 52:810-816 (1974).
- Said F.S., Weale R.A., The variation with age of the spectral transmissivity of the living human crystalline lens, "Gerontologia," 3:213-231 (1959).
- Saif S., el Gammal Y., Barrada A., Mahfouz M., A study of the epidemiology of pterygium and its aetiological factors in the UAR, "Bull Ophthalmol Soc Egypt," 60:539-554 (1967).
- Sambandam S., Epidemiology of cataract in Tamil Nadu, India, "Proceedings of XXIV International Congress of Ophthalmology," 2:1351-1353 (1983).
- Sanford B.E., Beacham S., Hanifin J.P., Hannon P., Streletz J., Sliney D.H., Brainard G.C., The effects of ultraviolet-A radiation on visual evoked potentials in the young human eye, "Acta Ophthalmologica Scandinavica," 74:553-557 (1996).
- Sarks S., Aging and degeneration in the macular region: a clinical-pathological study, "Br J Ophthalmol," 60:324-341 (1976).
- Sarks S., Drusen and their relationship to senile macular degeneration, "Aust J Ophthalmol," 8:117-130 (1980).
- Sarks S., Penfold P., Killingsworth M., van Driel D., Patterns in macular degeneration, "Retinal Diseases," (edited by Ryan S., Dawson A.) Grune & Stratton, New York, NY, 87-93 (1993).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Sasaki K., Epidemiology - search for risk factors of cataract formation, "Nova Acta Leopoldina," 75(299):25-36 (1997).
- Sasaki K., Karino K., Kojima M., Sakamoto Y., Takizawa A., Zeinuddin D., Cataract survey in the local area using photographic documentation, "Dev Ophthalmol," 15:28-36 (1987).
- Sasaki K., Kasuga T., Ono M., Sakamoto Y., Kojima M., Aging changes of lens transparency in subjects with noncataractous eyes, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, 102-108 (1997).
- Sasaki K., Kojima M., Sakamoto Y., Fujisawa K., Asano K., Ono M., Katoh N., A current UV-B related cataract epidemiology study in Japan, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, (1997).
- Satoh K., Fluorescence in human lens, "Exp Eye Res," 16:167-172 (1973).
- Schefrin B.E., Werner J.S., Plach M., Utlaut N., Switkes E., Sites of age-related sensitivity loss in a short-wave cone pathway, "J Opt Soc Am," 9(3):355-363 (1992).
- Schein O.D., West S., Munoz B., Vitale S., Maguire M., Taylor H.R., Cortical lenticular opacification: Distribution and location in a longitudinal study, "Invest Ophthalmol Vis Sci," 35(2):363-366 (1994).
- Schmidt J., Brettner S., Wegener A., Hockwin O., Ultraviolet-induced changes in corneal transmission properties and influence on Scheimpflug photography, "Ophthalmic Res," 22:365-370 (1990).
- Schmidt J., Schmitt C., Kojima M., Hockwin O., Biochemical and morphological changes in rat lenses after long-term UVB irradiation, "Ophthalmic Res," 187: (1992).
- Schmidt J., Schmitt C., Wegener A., Hockwin O., Photographic, histologic and biochemical investigations of the early stages of diabetic cataracts in rats, "Concepts in Toxicology," 4:360-367 (1987).
- Schmidt R.E., Zuclich J.A., Retinal lesions due to ultraviolet laser exposure, "Invest Ophthalmol Vis Sci," 19(10):1166-1175 (1980).
- Schmitt C., Schmidt J., Hockwin O., Protein profiles after UV-B irradiation and bendazac lysine (bendalina) treatment, "Dev Ophthalmol," 21:143-150 (1991).
- Schmitt C., Schmidt J., Wegener A., Hockwin O., Effect of an aldose reductase inhibitor, AL-1576, on the development of UV-B and X-ray cataract, "Graefe's Arch Clin Exp Ophthalmol," 226:455-460 (1988).
- Schuschereba, S.T., Silverman, M.S., Retinal cell and photoreceptor transplantation between adult New Zealand red rabbit retinas, "Experimental neurology," 115:95-99 (1992).
- Schwartz B., Environmental temperature and the ocular temperature gradient, "Arch Ophthalmol," 74:237-243 (1965).
- Schwartz B., Feller M.R., Temperature gradients in the rabbit eye, "Invest Ophthalmol," 1:513-521 (1962).
- Schwartz, L.H., Ferrand, R., Boelle, P.Y., Maylin, C., D'Hermies, F., Virmont, J., Lack of correlation between the location of choroidal melanoma and ultraviolet-radiation dose distribution, "Radiation Research," 147:451-456 (1997).
- Seddon J.M., Gragoudas E.S., Glynn R.J., Egan K.M., Albert D.M., Blitzer P.H., Host factors, UV radiation, and risk of uveal melanoma, "Arch Ophthalmol," 108:1274-1280 (1990).
- Seung W.S., A survey of senile cataracts among high altitude living Tibetans in Chang-du district, Tibet, "Chinese J Ophthalmol," 15:100-104 (1979).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Sexton M., Malone F., Farnsworth D., The effect of ultraviolet radiation from fluorescent lights on dark adaptation and visual acuity, "MRL No. 169," 109:301-317 (1950).
- Sherashov S.G., Spectral sensitivity of the cornea to ultraviolet radiation, "Biofizika," 15:543-544 (1970).
- Shibata T., Katoh N., Hatano T., Sasaki K., Population based case-control study of cortical cataract in the Noto area, Japan, "Ophthalmic Res," (1993).
- Shimeld C., Hill T., Blyth W.A., Easty D., An improved model of recurrent herpetic eye disease in mice, "Curr Eye Res," 8(11):1193-1205 (1989).
- Shimeld C., Hill T., Blyth W.A., Easty D., Reactivation of latent infection and induction of recurrent herpetic eye disease in mice, "J Gen Virol," 71:397-404 (1990).
- Shyn K.H., Lee D.H., Hong N.S., Ro S.H., Normal aging changes of the scattering light intensity in human lens measuring with Scheimpflug photography, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, 14-18 (1997).
- Simons K., Artificial light and early-life exposure in age-related macular degeneration and in cataractogenic phototoxicity, "Arch Ophthalmol," 111:297 (1993).
- Sliney D.H., Epidemiological studies of sunlight and cataract: the critical factor of ultraviolet exposure geometry, "Ophthalmic Epidemiology, and reprinted in Optometry Today Nov/Dec 1997," 1(2):107-119 (1994).
- Sliney D.H., Eye protective techniques for bright light, "Ophthalmology," 90(8):937-944 (1983).
- Sliney D.H., Ocular effects of ultraviolet radiation, "Proceedings of the First European Symposium on the Effects of Environmental UV-B Radiation on Health and Ecosystems," 149-157 (1993).
- Sliney D.H., Ocular injury due to light toxicity, "Int Ophthalmol Clin, and reprinted in Optometry Today Nov/Dec 1997," 28(3):246-250 (1988).
- Sliney D.H., Optical radiation safety of ophthalmic sources, "Draft," (1995).
- Sliney D.H., Ultraviolet radiation and the eye, "Light, Lasers and Synchrotron Radiation," (edited by Grandolfo M.) Plenum Press, New York, NY, USA, 237-245 (1990).
- Sliney D.H., Ultraviolet Radiation Effects upon the Eye: Problems of Dosimetry, "Radiation Protection Dosimetry," (edited by Dennis, J.A., Stather, J.) Nuclear Technology Publishing, Kent, GBR, 72(3/4):197-206 (1997).
- Smith H., Actinic macular retinal pigment degeneration, "US Navy Med Bull," 42:675-680 (1944).
- Soderberg P.G., Acute cataract in the rat after exposure to radiation in the 300 nm wavelength region, "Acta Ophthalmologica," 66:141-152 (1988).
- Soderberg P.G., Development of light dissemination in the rat lens after in vivo exposure to radiation in the 300 nm wavelength region, "Ophthalmic Res," 22(5):271-279 (1990).
- Soderberg P.G., Experimental cataract induced by ultraviolet radiation, "Acta Ophthalmol Supplement," 196:1-75 (1990).
- Soderberg P.G., Matsui T., Manns F., Shen J., Parel J.-M., Legeais J.-M., Three months follow up of changes in the rabbit cornea after photoablation with a pulsed scanning beam at 213 nm, "SPIE," 2393:55-60 (1995).
- Sonne C., The biological effects of the ultraviolet rays and investigation as to what part of the spectrum they lie in, "Arch Phys Ther," 10:239-252 (1929).
- Spector A., The search for a solution to senile cataracts, "Invest Ophthalmol Vis Sci," 25:130-146 (1984).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Spector A., Roy D., Stauffer J., Isolation and characterization of an age depicted polypeptide from human lens and nontryptophan fluorescence, "Exp Eye Res," 21:9-24 (1975).
- Sperduto R., Hiller R., Seigel D., Lens opacities and senile maculopathy, "Arch Ophthalmol," 99:1004-1008 (1981).
- Sperling H., Prolonged intense spectral light effects on rhesus retina, "The Effects of Constant Light on Visual Processes," (edited by Williams T., Baker B.) (1980).
- Sperling H., Johnson C., Harwerth R., Differential spectral photic damage to primate cones, "Vision Res," 20:1117-1125 (1980).
- Spierer A., Rosner M., Belkin M., Pterygium, solar ultraviolet radiation and myopia, "Metab Pediatr Syst Ophthalmol," 8:47-48 (1985).
- Strahlman E., Fine S., Hillis A., The second eye of patients with macular degeneration, "Surv Ophthalmol," 32:252-269 (1988).
- Stuart D.D., Cullen A.P., Sivak J.G., Doughty M.J., Optical effects of UV-A and UV-B radiation on the cultured bovine lens, "Curr Eye Res," 13:371-376 (1994).
- Stuck, B.E., Lund, D.J., Beatrice, E.S., Ocular effects of laser radiation from 1.06 to 2.06 μ , "SPIE Vol 229--Ocular Effects of Non-Ionizing Radiation," Society of Photo-Optical Instrumentation Engineers, Bellingham, 115-120 (1980).
- Sydenham M.M., Collins M.J., Hirst L.W., Measurement of ultraviolet radiation at the surface of the eye, "Invest Ophthalmol Vis Sci," 38(8):1485-1492 (1997).
- Sykes S.M., Robison Jr. W.G., Waxler M., Kuwabara T., Damage to the monkey retina by broad-spectrum fluorescent light, "Invest Ophthalmol Vis Sci," 20:425-434 (1981).
- Tabbara K.F., Climatic droplet keratopathy, "Int Ophthalmol Clin," 26(4):63-68 (1986).
- Tabbara K.F., Ross-Degnan D., Blindness in Saudi Arabia, "JAMA," 255:3378-3384 (1986).
- Tafoya G.B., Gale J.M., Ley R.D., Photorepair of ultraviolet radiation (UVR)- induced pyrimidine dimers in lens epithelial DNA of *Monodelphis domestica*, "Photochem Photobiol," 65(1):125-128 (1997).
- Tan K.E.W.P., Vision in the Ultraviolet, "Vision in the Ultraviolet," Elinkwijk Printers, Utrecht, (1971).
- Tapaszto I., Vass Z., Alterations in mucopolysaccharide compounds of tears and of the corneal epithelium caused by ultraviolet radiation, "Ophthalmologica," 158:343-347 (1969).
- Taylor H., Climatic droplet keratopathy and pterygium, "Aust J Ophthalmol," 9:199-206 (1981).
- Taylor H., Munoz B., West S., Bressler N., Bressler S., Rosenthal F., Visible light and risk of age-related macular degeneration, "Trans Am Ophthalmol Soc," 88:163-177 (1990).
- Taylor H.R., The biological effects of UV-B on the eye, "Photochem Photobiol," 50(4):489-492 (1989).
- Taylor H.R., The environment and the lens, "Br J Ophthalmol," 64:303-310 (1980).
- Taylor H.R., Ultraviolet radiation and the eye: An epidemiologic study, "Tr Am Ophth Soc," 87:802-853 (1989).
- Taylor H.R., West S., Munoz B., Rosenthal F.S., Bressler S.B., Bressler N.M., The long-term effects of visible light on the eye, "Arch Ophthalmol," 110:99-104 (1992).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Taylor H.R., West S.K., Rosenthal F.S., Munoz B., Newland H.S., Abbey H., Emmett E.A., Effect of ultraviolet radiation on cataract formation, "New Engl J Med, and reprinted in Optometry Today Nov/Dec 1997," 319(22):1429-1433 (1988).

Taylor, H.R., West, S.K., Corneal changes associated with chronic UV irradiation, "Arch Ophthalmol," 107:1481-1484 (1989).

Tengroth B.M., The effect of light on the lens related to age, "Eye," 1:231-233 (1987).

Terman M., Reme C.E., Rafferty B., Gallin P.F., Terman J.S., Bright light therapy for winter depression: potential ocular effects and theoretical implications, "Photochem Photobiol," 51(6):781-792 (1990).

Treton J.A., Courtois Y., Evolution of the distribution, proliferation and ultraviolet repair capacity of rat lens epithelial cells as a function of maturation and aging, "Mech Ageing and Devel," 15:251-267 (1981).

Trokel S., The physical basis for transparency of the crystalline lens, "Invest Ophthalmol," 1(4):493-501 (1962).

Tso M., Experiments on visual cells by nature and man - in search of treatment for photoreceptor degeneration - Friedenwald Lecture, "Invest Ophthalmol Vis Sci," 30(12):2430-2454 (1989).

Tso M., Retinal photic injury in normal and scorbutic monkeys, "Trans Am Ophthalmol Soc," 85:498-556 (1987).

Tso M., Fine B., Zimmerman L., Photic maculopathy produced by the indirect ophthalmoscope, "Am J Ophthalmol," 73:686-699 (1972).

Tso M., La Piana F., The human fovea after sungazing, "Trans Am Acad Ophthalmol Otolaryngol," 79:788-795 (1975).

Tso M., Woodford B., Effect of photic injury on the retinal tissue, "Ophthalmology," 90:952-963 (1983).

Tuffs A., Wegener A., Hockwin O., Pilot study on cataractogenesis by UV irradiation, "Concepts Toxicol," 4:276-284 (1987).

Tuft S., Al-Dhahir R., Dyer P., Zehao Z., Characterization of the fluorescence spectra produced by excimer laser irradiation of the cornea, "Invest Ophthalmol Vis Sci," 31:1512-1518 (1990).

Van Best J.A., Bollemeijer J.G., Sterk C.C., Corneal transmission in whole human eyes, "Exp Eye Res," 46:765-768 (1988).

Van Best J.A., Tjin A., Tsoi E.W.S.J., et. al., In vivo assessment of lens transmission for blue-green light by autofluorescent measurement, "Ophthalmic Res," 17:90-95 (1985).

van den Berg T.J.T.P., Quantal and visual efficiency of fluorescence in the lens of the human eye, "Invest Ophthalmol Vis Sci," 34(13):3566-3573 (1993).

van der Hoeve J., Der antagonisms zwischen seniler katarakt und seniler makuladegeneration (Haab), "Zeit Augenheilkd," 63:127-136 (1927).

van der Hoeve J., Eye lesions produced by light rich in ultraviolet rays. Senile cataract, senile degeneration of macula, "Am J Ophthalmol," 3:178-194 (1920).

van der Hoeve J., Senile maculadegeneration and senile linsentrubung, "Graefe's Arch Ophthalmol," 98:1-6 (1918).

van Heyningen R., Fluorescent compounds of the human lens, "Ciba Symposium 19 (New Series)," Elsevier, Amsterdam and New York, 151 (1973).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- van Heyningen R., The human lens, I. A comparison of cataracts extracted in Oxford (England) and Shikarpur (W Pakistan), "Exp Eye Res," 13:136-147 (1972).
- Varma S.D., Scientific basis for medical therapy of cataracts by antioxidants, "Am J Clin Nutr," 53:335-345 (1991).
- Varma S.D., Chand D., Sharma Y.R., Kuck J.F., Richards R.D., Oxidative stress on lens and cataract formation: role of light and oxygen, "Curr Eye Res," 3:35-57 (1984).
- Varma S.D., Kumar S., Richards R.D., Light-induced damage to ocular lens cation pump: prevention by vitamin C, "Proc Natl Acad Soc, USA," 76:3504 (1979).
- Varma S.D., Srivastava V.K., Richards R.D., Photoperoxidation of lens and cataract formation: preventive role of superoxide dismutase, catalase and vitamin C, "Ophthalmic Res," 14:167.
- Verhoeff F., Bell L., Walker C., The pathological effects of radiant energy on the eye, "Proc Am Acad Art Sci," 51:630-818 (1912).
- Vogelweid C.M., Miller R.B., Berg J.N., Kinden D.A., Scanning electron microscopy of bovine corneas irradiated with sun lamps and challenge exposed with *Moraxella bovis*, "Am J Vet Res," 47(2):378-384 (1986).
- Wald G., Alleged effects of the near ultraviolet on human vision, "J Opt Soc Am," 42:171-177 (1952).
- Wald G., Human vision and the spectrum, "Science," 101:653-658 (1945).
- Walters B.L., Commercial tanning facilities: A new source of eye injury, "Am J Emer Med," 5:386-389 (1987).
- Waxler M., Hitchins V.M., , "Optical radiation and visual health," CRC Press, Boca Raton, FL, (1986).
- Weale R., Human ocular aging and ambient temperature, "Br J Ophthalmol," 65(12):869-879 (1981).
- Weale R., Senile cataract, the case against light, "Br J Ophthalmol," 66(1):31-34 (1982).
- Weale R., Senile cataract, the case against light, "Ophthalmology," 90:420-423 (1983).
- Weale R.A., Age and human lenticular fluorescence, "J Biomed Opt," 1(3):251-261 (1996).
- Wegener A., Laser H., Hockwin O., Reproducibility studies with the Zeiss SLC system and animal cataract model, "Ophthalmic Res," 22:29-35 (1990).
- Wegener A., Laser H., Hockwin O., Ultraviolet filter photography to demonstrate the fluorescence of animal lenses with different cataract models, "Ophthalmic Res," 22(1):56-61 (1990).
- Weigand R., Giusto N., Anderson R., Lipid changes in albino rat rod outer segments following constant illumination, "Problems of Normal and Genetically Abnormal Retinas," (edited by Clayton R., Haywood J., Reading H.) (1982).
- Weinstein I., Quantitative biological effects of monochromatic ultraviolet light, "J Opt Soc Am," 20:433-456 (1930).
- Weiter J., Phototoxic changes in the retina, "Clinical Light Damage to the Eye," (edited by Miller D.) (1987).
- Weiter J., Phototoxic changes in the retina, "Clinical Light Damage to the Eye," (edited by Miller D.) (1987).
- Weiter J., The influence of the photoreceptor RPE complex on the inner retina, "Ophthalmology," 87:1133-1139 (1980).
- Weiter J., Delori F., Wing G., Fitch K., Relationship of senile macular degeneration to ocular pigmentation, "Am J Ophthalmol," 99:185-187 (1985).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

- Wen-shu M., Tian-sheng H., An epidemiological survey of senile cataract in China, "Chinese Med J," 95:813-818 (1982).
- Werner J., Steele V., Pfoff D., Loss of human photoreceptor sensitivity associated with chronic exposure to ultraviolet radiation, "Ophthalmol," 96:1552-1558 (1989).
- Werner J.S., Spillmann L., UV-absorbing intraocular lenses: Safety, efficacy, and consequences for the cataract patient, "Graefe's Arch Clin Exp Ophthalmol," 227:248-256 (1989).
- West S.K., Rosenthal F.S., Bressler N.M., Bressler S.B., Munoz B., Fine S.L., Taylor H.R., Exposure to sunlight and other risk factors for age-related macular degeneration, "Arch Ophthalmol," 107:875-879 (1989).
- Whillock M., Pearson A., Shades of summer, "Radiological Protection Bulletin," 175:24-26 (1996).
- WHO, "Environmental Health Criteria 23, Lasers and Optical Radiation," World Health Organization, Geneva, Switzerland, (1982).
- WHO, Health and environmental effects of ultraviolet radiation: A summary of Environmental Health Criteria 160, "WHO/EHG/95.16," World Health Organization, Geneva, Switzerland, (1995).
- WHO, Protection against exposure to ultraviolet radiation, "WHO/EHG/95.17," World Health Organization, Geneva, Switzerland, (1995).
- WHO, Solar Radiation and Human Health, "WHO Fact Sheet No. 133," (edited by Repacholi M.) World Health Organization, Geneva, Switzerland, 1-4 (1996).
- WHO, The effects of solar UV radiation on the eye, "WHO/PBL/EHG/94.1," World Health Organization, Geneva, Switzerland, (1994).
- WHO, The effects of solar UV radiation on the eye: Report of an informal consultation, "WHO/PBL/93.34," World Health Organization, Geneva, Switzerland, (1993).
- Wolf E., Effects of exposure to ultraviolet light on subsequent dark adaptation, "Proc Natl Acad Sci," 31:349-355 (1945).
- Wolf E., Effects of exposure to ultraviolet light on visual thresholds, "Proc Natl Acad Sci," 31:236-241 (1945).
- Wolf E., Zigler M.J., Cause of dark adaptation under various conditions of pre-exposure and testing, "J Opt Soc Am," 45:696-702 (1955).
- Wolken J.J., Mogus M.A., "Extraocular Photoreception, v.6," 181-199 (1981).
- Wong Ho D., Cruddas A.M., Hwang C.H., Ho C.P., Robertshaw A.M., MacDonald D.M., Sunlight, exposure, antioxidant status, and cataract in Hong Kong fishermen, "J Epidemiol Community Health," 47(1):46-49 (1993).
- Wong L., Ho S.C., Coggon D., Curddas A.M., Hwang X.H., Ho C.P., et. al., Sunlight exposure, antioxidant status, and cataract in Hong Kong fishermen, "J Epidemiol Comm Health," 47:46-49 (1993).
- Wood A.M., Truscott R.J.W., UV filters in human lenses: Tryptophan catabolism, "Exp Eye Res," 56:317-325 (1993).
- Wright R.E., The possible influence of solar radiation on the production of cataract in certain districts of southern India: a preliminary investigation, "Indian J Med Res," 24:917-930 (1936).
- Xu J., Pokorny J., Smith V.C., Optical density of the human lens, "J Opt Soc Am," 14(5):953-960 (1997).
- Yamanashi B.S., Hacker H., Klintworth G.K., Wavelength dependence and kinetics of UV-induced free radical formation in the human cornea and lens, "Photochem Photobiol," 30:391-395 (1979).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Yannuzzi L., Fisher Y., Slakter J., Krueger A., Solar retinopathy, a photobiologic and geophysical analysis, "Retina," 9:28-43 (1989).

Young F., Foveomacular retinitis in military personnel, "US Army Med Bull," 26:250-251 (1969).

Young J.D.H., Finley R.D., Primary spheroidal degeneration of the cornea in Labrador and Northern Newfoundland, "Am J Ophthalmol," 71(1):129-134 (1975).

Young R., , "Age-Related Cataract," Oxford University Press, New York, (1991).

Young R., Biological renewal, applications to the eye, "Trans Ophthalmol Soc UK," 102:42-75 (1982).

Young R., Pathophysiology of age-related macular degeneration, "Surv Ophthalmol," 31:291-306 (1987).

Young R., Solar radiation and age-related macular degeneration, "Surv Ophthalmol," 32:252-269 (1988).

Young R.W., The family of sunlight-related eye diseases, "Optom Vis Sci, and reprinted in Optometry Today Nov/Dec 1997," 71(2):125-144 (1994).

Young R.W., Occumpaugh D.E., Autoradiographic studies on the growth and development of the lens capsule in the rat, "Invest Ophthalmol," 5:583-593 (1966).

Young, A.R., Chadwick, C.A., Harrison, G.I., Nikaido, O., Ramsden, J., Potten, C.S., The similarity of action spectra for thymine dimers in human epidermis and erythema suggests that DNA is the chromophore for erythema, "J Invest Dermatology," 111:982-988 (1998).

Yu N.T., Kuck J.R.F., Askren C.C., Reports: red fluorescence in older and brunescient human lenses, "Invest Ophthalmol Vis Sci," 18:1278-1280 (1979).

Zeimer R.C., Lim H.K., Ogura Y., Evaluation of an objective method for the in vivo measurement of changes in light transmittance of the human crystalline lens, "Exp Eye Res," 45:969-976 (1987).

Zeimer R.C., Noth J.M., A new method of measuring in vivo lens transmittance and study of lens scatter, fluorescence and transmittance, "Ophthalmic Res," 16:246-255 (1984).

Zhang B.-X., Gao S.-Q., Tao W., An epidemiological survey of cataract in China, "Cataract Epidemiology," (edited by Sasaki K., Hockwin O.) Karger, Basel, Switzerland, 89-94 (1997).

Zigler J.S., Goosey J.D., Photosensitized oxidation in the ocular lens: evidence for photosensitizers endogenous to the human lens, "Photochem Photobiol," 33:869-874 (1981).

Zigler J.S., Goosey J.D., Singlet oxygen as a possible factor in human senile cataract development, "Curr Eye Res," 3:59-65 (1984).

Zigler J.S., Jernigan H.M., Perlmutter N.S., Kinoshita J.H., Photodynamic cross-linking of polypeptides in intact rat lens, "Exp Eye Res," 35:239-249 (1982).

Zigman S., Eye lens color: formation and function, "Science," 171:807-808 (1971).

Zigman S., Light damage to the lens, "Clinical Light Damage to the Lens," Springer-Verlag, New York, 65-77 (1987).

Zigman S., Near-UV damage of the lens and protection by vitamin E, "Photochem Photobiol," 55:62-63 (1993).

Zigman S., Photobiology of the lens, "The Ocular Lens Structure: Function and Pathology," (edited by Maisel) Marcel Dekker, New York, 301-347 (1985).

Zigman S., Photochemical mechanisms in cataract formation, "Mechanisms of Cataract Formation in the Human Lens," Academic Press, New York, 117-149 (1981).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Zigman S., Recent research on near-UV radiation and the eye, "The Biological Effects of UV Radiation," (edited by Urbach F., Gange R.W.) Praeger Publishers, New York, 252-265 (1986).

Zigman S., Yearly review - Ocular light damage, "Photochem Photobiol," 57(6):1060-1068 (1993).

Zigman S., Bagley S.J., Near ultraviolet light effects on dogfish retinal rods, "Exp Eye Res," 12:155-157 (1971).

Zigman S., Datiles M., Torczynski E., Sunlight and human cataracts, "Invest Ophthalmol Vis Sci," 18:462-467 (1979).

Zigman S., Griess G., Yulo T., Schultz J., Ocular protein alterations by near UV light, "Exp Eye Res," 15:201-208 (1973).

Zigman S., Groff J., Yulo T., Griess G., Light extinction and protein in lens, "Exp Eye Res," 23:555-567 (1976).

Zigman S., Groff J., Yulo T., Vaughn T., The response of mouse ocular tissues to continuous near-UV light exposure, "Invest Ophthalmol," 14:710-713 (1975).

Zigman S., McDaniel T., Schultz J.B., Reddan J., Meydani M., Mechanisms of lens epithelial cell cytotoxicity from near UV exposure and protection by antioxidants, "Invest Ophthalmol Vis Sci," 34:1299 (1993).

Zigman S., Paxhia T., McDaniel T., Lou M.F., Yu N.-T., Effect of chronic near-ultraviolet radiation on the gray squirrel lens in vivo, "Invest Ophthalmol Vis Sci," 32(6):1723-1732 (1991).

Zigman S., Paxhia T., McDaniel T., Schultz J., , "Biologic Effects of Light," (edited by Holick M.F., Klegman A.M.) W. de Gruyter, Berlin, New York, 24-252.

Zigman S., Reddan J., Schultz J.B., McDaniel T., Structural and functional changes in catalase induced by near-UV radiation, "Photochem Photobiol," 63(6):818-824 (1996).

Zigman S., Schultz J., Yulo T., Cataract induction in mice exposed to near UV light, "Ophthalmic Res," 6:259-270 (1974).

Zigman S., Schultz J., Yulo T., Griess G., The binding of photo-induced tryptophan to a lens gamma-crystallin, "Exp Eye Res," 17:209-215 (1971).

Zigman S., Schultz J.B., Yulo T., Possible roles of near UV light in the cataractous process, "Exp Eye Res," 15:201-208 (1973).

Zigman S., Schultz J.B., Yulo T., Grover D., Effects of near-UV irradiation on lens and aqueous humor proteins, "Isr J Med Sci," 8:1590-1595 (1972).

Zigman S., Sutliff G., Rounds M., Relationships between human cataracts and environmental radiant energy, "Lens Eye Toxicity Res," 8:259-280 (1991).

Zigman S., Vaughan T., Near-ultraviolet light effects of the lenses and retinas of mice, "Invest Ophthalmol," 13:462-465 (1974).

Zuclich J., Kurtin W., Oxygen dependence of near-ultraviolet induced corneal damage, "Photochem Photobiol," 25:133-135 (1977).

Zuclich J.A., Cumulative effects of near-UV induced corneal damage, "Health Physics," 38:833-838 (1980).

Zuclich J.A., Ultraviolet-induced photochemical damage in ocular tissues, "Health Physics," 56(5):671-682 (1989).

Zuclich J.A., Connolly J.S., Ocular damage induced by near ultraviolet laser radiation, "Invest Ophthalmol," 15(9):760-764 (1976).

USACHPPM UV HAZARDS BIBLIOGRAPHY - EYE

Zuclich J.A., Glickman R.D., Menendez A.R., In situ measurements of lens fluorescence and its interference with visual function, "Invest Ophthalmol Vis Sci," 33(2):410-415 (1992).

Zuclich J.A., Shimada T., Loree T.R., Bigio I., Strobl K., Nie S., Rapid noninvasive optical characterization of the human lens, "Lasers in the Life Sciences," 6(1):39-53 (1994).

Zuclich J.A., Taboada J., Ocular hazard from UV laser exhibiting self-mode locking, "Appl Opt," 17:1482 (1978).

Zuclich, J.A., Blankenstein, M.F., ` , , "USAFSAM-TR-99-24--Additivity of retinal damage for multiple-pulse laser exposures," KRUG International, San Antonio, (1988).

Zwick H., Gagliano D.A., Stuck B.E., Lund D.J., Comparison of solar and laser macula retinal injury using SLO spectral imaging, "SPIE Ultraviolet Radiation Hazards," 2134B:54-63 (1994).